

11:04

56%

Wed, Feb 15



Device control

Media output

Finish setting up your Lance's S10e

Just a few more steps

New voicemail 10:14 AM

Con

Re: Schedule Feb 14

Wi-Fi network available

Open Wi-Fi network available

Notification settings Clear

(Searching)



56%



11:04

Wed, February 15

Device control

Media output



Wi-Fi



Sound



Bluetooth



Auto rotate



Airplane mode



Flashlight



Mobile data



Mobile Hotspot



Power saving



Location



Link to Windows



Screen recorder

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56%



11:04

Wed, February 15

Device control

Media output

Quick Share
Contacts only

DeX



Smart View



Nearby Share

Eye comfort
shield

Dark mode

Do not
disturbScan QR
code

Wi-Fi Calling



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Android Quick Study

**Vivian Siahaan, Rismon Hasiholan
Sianipar**



Android Quick Study:

Android Design Patterns Greg Nudelman, 2013-02-19 Master the challenges of Android user interface development with these sample patterns With Android 4 Google brings the full power of its Android OS to both smartphone and tablet computing Designing effective user interfaces that work on multiple Android devices is extremely challenging This book provides more than 75 patterns that you can use to create versatile user interfaces for both smartphones and tablets saving countless hours of development time Patterns cover the most common and yet difficult types of user interactions and each is supported with richly illustrated step by step instructions Includes sample patterns for welcome and home screens searches sorting and filtering data entry navigation images and thumbnails interacting with the environment and networks and more Features tablet specific patterns and patterns for avoiding results you don't want Illustrated step by step instructions describe what the pattern is how it works when and why to use it and related patterns and anti patterns A companion website offers additional content and a forum for interaction *Android Design Patterns Interaction Design Solutions for Developers* provides extremely useful tools for developers who want to take advantage of the booming Android app development market

Android application development with Kotlin Trivedi Hardik, 2020-05-12 Unleash the Power of Kotlin for Android App Development DESCRIPTION This book aims to provide the knowledge around the fundamental concept of Kotlin languages and it's an application in Android application development It covers basic to advanced concepts with practical examples Each chapter in this book is a step by step journey towards the learning Kotlin and excel in various topics and concepts It covers topics like data types various functions including lambdas and higher order functions It also covers advanced topics like Generics Collections DSL Coroutine etc Most importantly such concepts are explained with practical usage of it in Android application You will get to know what is the best possible way to use these concepts while you develop an Android application In this book along with Kotlin an attempt has been made where few Android specific topics are also explained For example the application is using Architecture components including ViewModel LiveData NavigationComponent and also it uses Flow which is a hot topic in Kotlin While we learn this concept along with that we also develop a sample application where we can apply our learning and in the end have some tangible and measurable output Readers with little previous knowledge of Android application development can easily follow this book Most of the chapters are code heavy and focuses on practical usage of Kotlin's features Each chapter has code on the GitHub You can check out this code and try it out Or you can develop in parallel and cherry pick things from the sample code base as and when you need it Few chapters also follow the quiz at the end and you can self assess yourself by going through that quiz In total there are ten chapters KEY FEATURES The book has theories explained elaborately along with Kotlin code and corresponding output to support the theoretical explanations The Kotlin codes are provided with step by step comments to explain each instruction of the code The book is quite well balanced with programs and illustrative real case problems The book is not just explaining theoretical concepts of the language Still it

explains how the full fledged application can be developed using some latest tools and technologies and create an excellent Android application using Kotlin Few of the chapter offers the quiz at the end of it And you can revise the concepts quickly A rich sample application is created to demonstrate Kotlin s capability in various parts of the application Quite the latest concepts are discussed in depth For example Flow NavigationComponent Coroutine ViewModel and LiveData WHAT WILL YOU LEARN Know the basics and many advanced concepts of Android Able to code in Kotlin for your Android application You will know how architecture components can be used in Android application with Kotlin Writing tests that use coroutine Flow LiveData and ViewModel What measures you need to take before you put an application in production How agile practices can be applied before and after the application development is started WHO THIS BOOK IS FOR The book is for readers with basic programming and android application development skills The book is for any engineering graduates that wish to use Kotlin as a programming language for their Android application or wish to build a career in this direction This book can also be useful for those who want to learn how testing aspects work for Android applications The use cases and programs discussed in the book are self explanatory and detailed with practical examples wherever necessary This is why the book can be read by anyone who has an interest in Kotlin and Android and how applications are developed with the industry level standard maintained

TABLE OF CONTENTS1 Getting started with Kotlin for Android2 Kotlin Fundamentals3 Go to the Depth of Kotlin4 Design Patterns in Kotlin5 Analyzing and Architecting a Meal Recipe App6 Making Network Calls Using Coroutines7 Kotlin ize remaining of your app8 Testing the Kotlin Code9 Make Your App Production Ready10 Kotlin Everywhere

AUTHOR BIO Hardik Trivedi is a computer programmer and self taught Android application development He started Android application development back in 2010 He is a Kotlin enthusiast and an active community speaker He actively contributes to Stack overflow and also writes a blog An Android application developer on his job he has worked in numerous domains for example consumer internet sports banking entertainment He also mentors college students and professionals who want to develop their career in Android application development As an active contributor in the community he has delivered speeches for events hosted by GDG Google Developer Group He is already a co author of e Kotlin Blueprintse A book that explains how Kotlin can be used everywhere In his personal life he loves to travel paint and cook In his retirement days you may find him owning a restaurant and making lip smacking food for his customers Your Blog links <https://trivedihardik.wordpress.com> Your LinkedIn Profiles LinkedIn Profile of Hardik Trivedi available at <https://www.linkedin.com/in/hardiktrivedi>

Android Ice Cream Sandwich Superguide (PCWorld Superguides) , From the Editors of PCWorld discover everything there is to know about the latest Android platform Ice Cream Sandwich is the most delicious Android yet Get the scoop on Google s latest mobile OS in PCWorld s newest Superguide Android Ice Cream Sandwich Android Ice Cream Sandwich is a marvel of advanced engineering a powerful handsome and versatile operating system that presents a universe of opportunities if you know how to use it But most of us could use some help on that score Fortunately

assistance is now available in the form of PCWorld's just published Superguide an in depth look at Android Ice Cream Sandwich for smartphone and tablet owners The all new guide written by PCWorld's mobile experts can get you started on Ice Cream Sandwich in a hurry with a walk through of new features a generous collection of tips and tricks and a guide to essential apps for both phones and tablets Want to defend your phone against obnoxious ads Or back up your phone Or upload 20 000 of your own songs to the cloud and then stream them back to your Ice Cream Sandwich device for free This authoritative volume offers step by step instructions for everything you need to know to accomplish these tasks and many more Other sections evaluate the best browsers security apps and utilities for your phone and even show you how to transform your smartphone into a high end camera For Ice Cream Sandwich tablet users we explain how to use Android Widgets and we rate the best news weather reference and communication apps

The Business of Android Apps Development Mark Rollins,Roy Sandberg,2013-08-31 The growing but still evolving success of the Android platform has ushered in a second mobile technology gold rush for app developers Google Play and Amazon Appstore for Android apps has become the second go to apps eco for today's app developers While not yet as large in terms of number of apps as iTunes Google Play and Amazon Appstore have so many apps that it has become increasingly difficult for new apps to stand out in the crowd Achieving consumer awareness and sales longevity for your Android app requires a lot of organization and some strategic planning Written for today's Android apps developer or apps development shop this new and improved book from Apress The Business of Android Apps Development Second Edition tells you today's story on how to make money on Android apps This book shows you how to take your app from idea to design to development to distribution and marketing your app on Google Play or Amazon Appstore This book takes you step by step through cost effective marketing public relations and sales techniques that have proven successful for professional Android app creators and indie shops perfect for independent developers on shoestring budgets It even shows you how to get interest from venture capitalists and how they view a successful app vs the majority of so so to unsuccessful apps in Android No prior business knowledge is required This is the book you wish you had read before you launched your first app

Blended Learning: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2016-08-18 Traditional classroom learning environments are quickly becoming a thing of the past as research continues to support the integration of learning outside of a structured school environment Blended learning in particular offers the best of both worlds combining classroom learning with mobile and web based learning environments Blended Learning Concepts Methodologies Tools and Applications explores emerging trends case studies and digital tools for hybrid learning in modern educational settings Focusing on the latest technological innovations as well as effective pedagogical practice this critical multi volume set is a comprehensive resource for instructional designers educators administrators and graduate level students in the field of education

Two Books In One:
LEARN FROM SCRATCH VISUAL BASIC .NET WITH MYSQL Vivian Siahaan,Rismon Hasiholan Sianipar,2020-11-05 BOOK 1

VISUAL BASIC NET AND DATABASE PRACTICAL TUTORIALS This book aims to develop a MySQL driven desktop application that readers can develop for their own purposes to implement library project using Visual Basic NET In Tutorial 1 you will build a Visual Basic interface for the database This interface will used as the main terminal in accessing other forms This tutorial will also discuss how to create login form and login table You will create login form Place on the form one picture box two labels one combo box one text box and two buttons In Tutorial 2 you will build a school inventory project where you can store information about valuables in school The table will have nine fields Item description of the item Quantity Location where the item was placed Shop where the item was purchased DatePurchased when the item was purchased Cost how much the item cost SerialNumber serial number of the item PhotoFile path of the photo file of the item and Fragile indicates whether a particular item is fragile or not In Tutorial 3 you will perform the steps necessary to add 5 new tables using phpMyAdmin into Academy database You will build each table and add the associated fields as needed Every table in the database will need input form In this tutorial you will build such a form for Author table Although this table is quite simple only four fields AuthorID Name BirthDate and PhotoFile it provides a basis for illustrating the many steps in interface design SQL statement is required by the Command object to read fields sorted by Name Then you will build an interface so that the user can maintain the Publisher table in the database Academy The Publisher table interface is more or less the same as Author table interface This Publisher table interface only requires more input fields So you will use the interface for the Author table and modify it for the Publisher table In Tutorial 4 you will perform the steps necessary to design and implement title form library member form and book borrowal form You start by designing and testing the basic entry form for book titles The Title table has nine fields BookTitle PublishYear ISBN PublisherID AuthorID Description Note Subject and Comment Then you will build such a form for Member table This table has twelve fields MemberID FirstName LastName BirthDate Status Ethnicity Nationality Mobile Phone Religion Gender and PhotoFile You need thirteen label controls one picture box six text boxes four comboboxes one check box one date time picker one openFileDialog and one printpreviewdialog You also need four buttons for navigation six buttons for controlling editing features one button for searching member s name and one button to upload member s photo Finally you will build such a form for Borrow table This table has seven fields BorrowID MemberID BorrowCode ISBN BorrowDate ReturnDate and Penalty In this form you need fourteen label controls seven text boxes two comboboxes two date time pickers and one printpreviewdialog You also need four buttons for navigation seven buttons for other utilities one button to generate borrowal code and one button to return book

BOOK 2 LEARN FROM SCRATCH VISUAL BASIC NET WITH MYSQL This book will teach you with step by step approach to develop from scratch a MySQL driven desktop application that readers can develop for their own purposes to implement school database project using Visual Basic NET In Tutorial 1 you will perform the steps necessary to add 8 tables using phpMyAdmin into School database that you will create You will build each table and add the associated fields as needed In

this tutorial you will also build login form and main form In Tutorial 2 you will build such a form for Parent table This table has thirteen fields ParentID FirstName LastName BirthDate Status Ethnicity Nationality Mobile Phone Religion Gender PhotoFile and FingerFile You need fourteen label controls two picture boxes six text boxes four comboboxes one check box one date time picker one openfiledialog and one printpreviewdialog You also need four buttons for navigation six buttons for other utilities one button for searching member s name one button to upload parent s photo and button to upload parent s finger Place these controls on the form In Tutorial 3 you will build such a form for Student table This table has fifteen fields StudentID ParentID FirstName LastName BirthDate YearEntry Status Ethnicity Nationality Mobile Phone Religion Gender PhotoFile and FingerFile You need sixteen label controls two picture boxes six text boxes five comboboxes one check box two date time pickers one openfiledialog and one printpreviewdialog You also need four buttons for navigation seven buttons for controlling editing features one button for searching parent s name one button to open parent form one button to upload student s photo and one button to upload student s finger In Tutorial 4 you will build a form for Teacher table This table has fifteen fields TeacherID RegNumber FirstName LastName BirthDate Rank Status Ethnicity Nationality Mobile Phone Religion Gender PhotoFile and FingerFile You need an input form so that user can edit existing records delete records or add new records The form will also have the capability of navigating from one record to another You need sixteen label controls one picture box seven text boxes five comboboxes one check box one date time picker one openfiledialog and one printpreviewdialog You also need four buttons for navigation six buttons for controlling editing features one button for searching teacher s name and one button to upload teacher s photo In Tutorial 5 you will build a form for Subject table This table has only three fields SubjectID Name and Description You need four label controls four text boxes one openfiledialog and one printpreviewdialog You also need four buttons for navigation seven buttons for utilities and one button for searching subject name Place these controls on the form You will also build a form for Grade table This table has seven fields GradeID Name SubjectID TeacherID SchoolYear TimeStart and TimeFinish You need to add seven label controls one text box four comboboxes and two date time pickers You also need four buttons for navigation seven buttons for controlling editing features one button to open subject form and one button to open teacher form In Tutorial 6 you will build a form for Grade_Student table This table has only three fields Grade_StudentID GradeID and StudentID You need an input form so that user can edit existing records delete records or add new records The form will also have the capability of navigating from one record to another You need two label controls and two comboboxes You also need four buttons for navigation seven buttons for controlling editing features one button to open grade form and one button to open student form

*ZERO TO MASTERY:
THE COMPLETE GUIDE TO LEARNING POSTGRESQL WITH PYTHON GUI* Vivian Siahaan, Rismon Hasiholan
Sianipar, 2022-09-25 This book uses the PostgreSQL version of MySQL based Northwind database The Northwind database is a sample database that was originally created by Microsoft and used as the basis for their tutorials in a variety of database

products for decades The Northwind database contains the sales data for a fictitious company called Northwind Traders which imports and exports specialty foods from around the world The Northwind database is an excellent tutorial schema for a small business ERP with customers orders inventory purchasing suppliers shipping employees and single entry accounting The Northwind database has since been ported to a variety of non Microsoft databases including PostgreSQL The Northwind dataset includes sample data for the following Suppliers Suppliers and vendors of Northwind Customers Customers who buy products from Northwind Employees Employee details of Northwind traders Products Product information Shippers The details of the shippers who ship the products from the traders to the end customers and Orders and Order_Details Sales Order transactions taking place between the customers the distribution of amount by year quarter month week day and hour the distribution of bottom 10 sales by product top 10 sales by product bottom 10 sales by customer top 10 sales by customer bottom 10 sales by supplier top 10 sales by supplier bottom 10 sales by customer country top 10 sales by customer country bottom 10 sales by supplier country top 10 sales by supplier country average amount by month with mean and ewm average amount by every month amount feature over June 1997 amount feature over 1998 and all amount feature

SIX BOOKS IN ONE: Classification, Prediction, and Sentiment Analysis Using Machine Learning and Deep Learning with Python GUI Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-04-11 Book 1 BANK LOAN STATUS CLASSIFICATION AND PREDICTION USING MACHINE LEARNING WITH PYTHON GUI The dataset used in this project consists of more than 100 000 customers mentioning their loan status current loan amount monthly debt etc There are 19 features in the dataset The dataset attributes are as follows Loan ID Customer ID Loan Status Current Loan Amount Term Credit Score Annual Income Years in current job Home Ownership Purpose Monthly Debt Years of Credit History Months since last delinquent Number of Open Accounts Number of Credit Problems Current Credit Balance Maximum Open Credit Bankruptcies and Tax Liens The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting and XGB classifier Three feature scaling used in machine learning are raw minmax scaler and standard scaler Finally you will develop a GUI using PyQt5 to plot cross validation score predicted values versus true values confusion matrix learning curve decision boundaries performance of the model scalability of the model training loss and training accuracy Book 2 OPINION MINING AND PREDICTION USING MACHINE LEARNING AND DEEP LEARNING WITH PYTHON GUI Opinion mining sometimes known as sentiment analysis or emotion AI refers to the use of natural language processing text analysis computational linguistics and biometrics to systematically identify extract quantify and study affective states and subjective information This dataset was created for the Paper From Group to Individual Labels using Deep Features Kotzias et al KDD 2015 It contains sentences labelled with a positive or negative sentiment Score is either 1 for positive or 0 for negative The sentences come from three different websites fields imdb com amazon com and yelp com For each website there exist 500 positive and 500 negative sentences Those were selected

randomly for larger datasets of reviews Amazon contains reviews and scores for products sold on amazon.com in the cell phones and accessories category and is part of the dataset collected by McAuley and Leskovec Scores are on an integer scale from 1 to 5 Reviews considered with a score of 4 and 5 to be positive and scores of 1 and 2 to be negative The data is randomly partitioned into two halves of 50% one for training and one for testing with 35 000 documents in each set IMDb refers to the IMDb movie review sentiment dataset originally introduced by Maas et al as a benchmark for sentiment analysis This dataset contains a total of 100 000 movie reviews posted on imdb.com There are 50 000 unlabeled reviews and the remaining 50 000 are divided into a set of 25 000 reviews for training and 25 000 reviews for testing Each of the labeled reviews has a binary sentiment label either positive or negative Yelp refers to the dataset from the Yelp dataset challenge from which we extracted the restaurant reviews Scores are on an integer scale from 1 to 5 Reviews considered with scores 4 and 5 to be positive and 1 and 2 to be negative The data is randomly generated a 50/50 training and testing split which led to approximately 300 000 documents for each set Sentences for each of the datasets above labels are extracted and manually 1000 sentences are manually labeled from the test set with 50% positive sentiment and 50% negative sentiment These sentences are only used to evaluate our instance level classifier for each dataset³ They are not used for model training to maintain consistency with our overall goal of learning at a group level and predicting at the instance level The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting and XGB classifier Three feature scaling used in machine learning are raw minmax scaler and standard scaler Finally you will develop a GUI using PyQt5 to plot cross validation score predicted values versus true values confusion matrix learning curve decision boundaries performance of the model scalability of the model training loss and training accuracy

Book 3 EMOTION PREDICTION FROM TEXT USING MACHINE LEARNING AND DEEP LEARNING WITH PYTHON GUI In the dataset used in this project there are two columns Text and Emotion Quite self explanatory The Emotion column has various categories ranging from happiness to sadness to love and fear You will build and implement machine learning and deep learning models which can identify what words denote what emotion The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting and XGB classifier Three feature scaling used in machine learning are raw minmax scaler and standard scaler Finally you will develop a GUI using PyQt5 to plot cross validation score predicted values versus true values confusion matrix learning curve decision boundaries performance of the model scalability of the model training loss and training accuracy

Book 4 HATE SPEECH DETECTION AND SENTIMENT ANALYSIS USING MACHINE LEARNING AND DEEP LEARNING WITH PYTHON GUI The objective of this task is to detect hate speech in tweets For the sake of simplicity a tweet contains hate speech if it has a racist or sexist sentiment associated with it So the task is to classify racist or sexist tweets from other tweets Formally given a training sample of tweets and labels where label

1 denotes the tweet is racist sexist and label 0 denotes the tweet is not racist sexist the objective is to predict the labels on the test dataset The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting XGB classifier LSTM and CNN Three feature scaling used in machine learning are raw minmax scaler and standard scaler Finally you will develop a GUI using PyQt5 to plot cross validation score predicted values versus true values confusion matrix learning curve decision boundaries performance of the model scalability of the model training loss and training accuracy

Book 5 TRAVEL REVIEW RATING CLASSIFICATION AND PREDICTION USING MACHINE LEARNING WITH PYTHON GUI The dataset used in this project has been sourced from the Machine Learning Repository of University of California Irvine UC Irvine Travel Review Ratings Data Set This dataset is populated by capturing user ratings from Google reviews Reviews on attractions from 24 categories across Europe are considered Google user rating ranges from 1 to 5 and average user rating per category is calculated The attributes in the dataset are as follows Attribute 1 Unique user id Attribute 2 Average ratings on churches Attribute 3 Average ratings on resorts Attribute 4 Average ratings on beaches Attribute 5 Average ratings on parks Attribute 6 Average ratings on theatres Attribute 7 Average ratings on museums Attribute 8 Average ratings on malls Attribute 9 Average ratings on zoo Attribute 10 Average ratings on restaurants Attribute 11 Average ratings on pubs bars Attribute 12 Average ratings on local services Attribute 13 Average ratings on burger pizza shops Attribute 14 Average ratings on hotels other lodgings Attribute 15 Average ratings on juice bars Attribute 16 Average ratings on art galleries Attribute 17 Average ratings on dance clubs Attribute 18 Average ratings on swimming pools Attribute 19 Average ratings on gyms Attribute 20 Average ratings on bakeries Attribute 21 Average ratings on beauty Attribute 22 Average ratings on cafes Attribute 23 Average ratings on view points Attribute 24 Average ratings on monuments and Attribute 25 Average ratings on gardens The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting XGB classifier and MLP classifier Three feature scaling used in machine learning are raw minmax scaler and standard scaler Finally you will develop a GUI using PyQt5 to plot cross validation score predicted values versus true values confusion matrix learning curve decision boundaries performance of the model scalability of the model training loss and training accuracy

Book 6 ONLINE RETAIL CLUSTERING AND PREDICTION USING MACHINE LEARNING WITH PYTHON GUI The dataset used in this project is a transnational dataset which contains all the transactions occurring between 01 12 2010 and 09 12 2011 for a UK based and registered non store online retail The company mainly sells unique all occasion gifts Many customers of the company are wholesalers You will be using the online retail transnational dataset to build a RFM clustering and choose the best set of customers which the company should target In this project you will perform Cohort analysis and RFM analysis You will also perform clustering using K Means to get 5 clusters The machine learning models used in this project to predict clusters as target variable are K Nearest Neighbor

Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine LGBM Gradient Boosting XGB and MLP Finally you will plot boundary decision distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy

AMAZON STOCK PRICE: VISUALIZATION, FORECASTING, AND PREDICTION USING MACHINE LEARNING WITH PYTHON GUI Vivian Siahaan,Rismon Hasiholan Sianipar,2023-06-09 Amazon is an American multinational technology company that is known for its e commerce cloud computing digital streaming and artificial intelligence services It was founded by Jeff Bezos in 1994 and is headquartered in Seattle Washington Amazon s primary business is its online marketplace where it offers a wide range of products including books electronics household items and more The company has expanded its operations to various countries and is one of the largest online retailers globally In addition to its e commerce business Amazon has ventured into other areas It provides cloud computing services through Amazon Web Services AWS which offers on demand computing power storage and other services to individuals businesses and governments AWS has become a significant revenue source for Amazon Amazon has also made a significant impact on the entertainment industry It operates Amazon Prime Video a streaming platform that offers a wide selection of movies TV shows and original content As for Amazon s stock price it has experienced substantial growth since the company went public in 1997 The stock has been highly valued by investors due to Amazon s consistent revenue growth market dominance and innovation The stock price has seen both ups and downs over the years reflecting market trends and investor sentiment The dataset used in this project starts from 14 May 1997 and is updated till 27 Oct 2021 It contains 6155 rows and 7 columns The columns in the dataset are Date Open High Low Close Adj Close and Volume In this project you will involve technical indicators such as daily returns Moving Average Convergence Divergence MACD Relative Strength Index RSI Simple Moving Average SMA lower and upper bands and standard deviation To perform forecasting based on regression on Adj Close price of Amazon stock price you will use Linear Regression Random Forest regression Decision Tree regression Support Vector Machine regression Na ve Bayes regression K Nearest Neighbor regression Adaboost regression Gradient Boosting regression Extreme Gradient Boosting regression Light Gradient Boosting regression Catboost regression MLP regression Lasso regression and Ridge regression The machine learning models used predict Amazon stock daily returns as target variable are K Nearest Neighbor classifier Random Forest classifier Naive Bayes classifier Logistic Regression classifier Decision Tree classifier Support Vector Machine classifier LGBM classifier Gradient Boosting classifier XGB classifier MLP classifier and Extra Trees classifier Finally you will develop GUI to plot boundary decision distribution of features feature importance predicted values versus true values confusion matrix learning curve performance of the model and scalability of the model

ZERO TO MASTERY: THE COMPLETE GUIDE TO LEARNING MYSQL BASED MULTIFORM PYTHON GUI Vivian Siahaan,Rismon Hasiholan Sianipar,2022-08-25 In this project we provide you with the MySQL version of The Oracle

Database Sample Schemas that provides a common platform for examples in each release of the Oracle Database The sample database is also a good database for practicing with SQL especially MySQL The detailed description of the database can be found on <http://luna.ext.oracle.com/server/112/e10831/diagrams.htm> insertedID0 The four schemas are a set of interlinked schemas This set of schemas provides a layered approach to complexity A simple schema Human Resources HR is useful for introducing basic topics An extension to this schema supports Oracle Internet Directory demos A second schema Order Entry OE is useful for dealing with matters of intermediate complexity Many data types are available in this schema including non scalar data types The Online Catalog OC subschema is a collection of object relational database objects built inside the OE schema The Product Media PM schema is dedicated to multimedia data types The Sales History SH schema is designed to allow for demos with large amounts of data An extension to this schema provides support for advanced analytic processing The HR schema consists of seven tables regions countries locations departments employees jobs and job_histories This book only implements HR schema since the other schemas will be implemented in the next books

HIGHER EDUCATION STUDENT ACADEMIC PERFORMANCE ANALYSIS AND PREDICTION USING MACHINE LEARNING WITH PYTHON GUI Vivian Siahaan,Rismon Hasiholan Sianipar,2022-04-24 The dataset used in this project was collected from the Faculty of Engineering and Faculty of Educational Sciences students in 2019 The purpose is to predict students end of term performances using ML techniques Attribute information in the dataset are as follows Student ID Student Age 1 18 21 2 22 25 3 above 26 Sex 1 female 2 male Graduated high school type 1 private 2 state 3 other Scholarship type 1 None 2 25% 3 50% 4 75% 5 Full Additional work 1 Yes 2 No Regular artistic or sports activity 1 Yes 2 No Do you have a partner 1 Yes 2 No Total salary if available 1 USD 135 200 2 USD 201 270 3 USD 271 340 4 USD 341 410 5 above 410 Transportation to the university 1 Bus 2 Private car taxi 3 bicycle 4 Other Accommodation type in Cyprus 1 rental 2 dormitory 3 with family 4 Other Mother s education 1 primary school 2 secondary school 3 high school 4 university 5 MSc 6 Ph D Father s education 1 primary school 2 secondary school 3 high school 4 university 5 MSc 6 Ph D Number of sisters brothers if available 1 1 2 2 3 3 4 4 5 or above Parental status 1 married 2 divorced 3 died one of them or both Mother s occupation 1 retired 2 housewife 3 government officer 4 private sector employee 5 self employment 6 other Father s occupation 1 retired 2 government officer 3 private sector employee 4 self employment 5 other Weekly study hours 1 None 2

Data Science and Deep Learning Workshop For Scientists and Engineers Vivian Siahaan,Rismon Hasiholan Sianipar,2021-11-04 WORKSHOP 1 In this workshop you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to implement deep learning on recognizing traffic signs using GTSRB dataset detecting brain tumor using Brain Image MRI dataset classifying gender and recognizing facial expression using FER2013 dataset In Chapter 1 you will learn to create GUI applications to display line graph using PyQt You will also learn how to display image and its histogram In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn Pandas NumPy and other libraries to perform prediction on handwritten

digits using MNIST dataset with PyQt You will build a GUI application for this purpose In Chapter 3 you will learn how to perform recognizing traffic signs using GTSRB dataset from Kaggle There are several different types of traffic signs like speed limits no entry traffic signals turn left or right children crossing no passing of heavy vehicles etc Traffic signs classification is the process of identifying which class a traffic sign belongs to In this Python project you will build a deep neural network model that can classify traffic signs in image into different categories With this model you will be able to read and understand traffic signs which are a very important task for all autonomous vehicles You will build a GUI application for this purpose In Chapter 4 you will learn how to perform detecting brain tumor using Brain Image MRI dataset provided by Kaggle <https://www.kaggle.com/navoneel/brain-mri-images-for-brain-tumor-detection> using CNN model You will build a GUI application for this purpose In Chapter 5 you will learn how to perform classifying gender using dataset provided by Kaggle <https://www.kaggle.com/cashutosh/gender-classification-dataset> using MobileNetV2 and CNN models You will build a GUI application for this purpose In Chapter 6 you will learn how to perform recognizing facial expression using FER2013 dataset provided by Kaggle <https://www.kaggle.com/nicolejyt/facialexpressionrecognition> using CNN model You will also build a GUI application for this purpose

WORKSHOP 2 In this workshop you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to implement deep learning on classifying fruits classifying cats dogs detecting furnitures and classifying fashion In Chapter 1 you will learn to create GUI applications to display line graph using PyQt You will also learn how to display image and its histogram Then you will learn how to use OpenCV NumPy and other libraries to perform feature extraction with Python GUI PyQt The feature detection techniques used in this chapter are Harris Corner Detection Shi Tomasi Corner Detector and Scale Invariant Feature Transform SIFT In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform classifying fruits using Fruits 360 dataset provided by Kaggle <https://www.kaggle.com/moltean/fruits> code using Transfer Learning and CNN models You will build a GUI application for this purpose In Chapter 3 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform classifying cats dogs using dataset provided by Kaggle <https://www.kaggle.com/chetankv/dogs-cats-images> using Using CNN with Data Generator You will build a GUI application for this purpose In Chapter 4 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform detecting furnitures using Furniture Detector dataset provided by Kaggle <https://www.kaggle.com/akkithetechie/furniture-detector> using VGG16 model You will build a GUI application for this purpose In Chapter 5 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform classifying fashion using Fashion MNIST dataset provided by Kaggle <https://www.kaggle.com/zalando-research/fashionmnist> code using CNN model You will build a GUI application for this purpose

WORKSHOP 3 In this workshop you will implement deep learning on detecting vehicle license plates recognizing sign language and detecting surface crack using TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries

In Chapter 1 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform detecting vehicle license plates using Car License Plate Detection dataset provided by Kaggle <https://www.kaggle.com/andrewmvd/car-plate-detection/download> In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform sign language recognition using Sign Language Digits Dataset provided by Kaggle <https://www.kaggle.com/ardamavi/sign-language-digits-dataset/download> In Chapter 3 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform detecting surface crack using Surface Crack Detection provided by Kaggle <https://www.kaggle.com/arunrk7/surface-crack-detection/download> WORKSHOP 4 In this workshop implement deep learning based image classification on detecting face mask classifying weather and recognizing flower using TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries In Chapter 1 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform detecting face mask using Face Mask Detection Dataset provided by Kaggle <https://www.kaggle.com/omkargurav/face-mask-dataset/download> In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to classify weather using Multi class Weather Dataset provided by Kaggle <https://www.kaggle.com/pratik2901/multiclass-weather-dataset/download> WORKSHOP 5 In this workshop implement deep learning based image classification on classifying monkey species recognizing rock paper and scissor and classify airplane car and ship using TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries In Chapter 1 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to classify monkey species using 10 Monkey Species dataset provided by Kaggle <https://www.kaggle.com/slothkong/10-monkey-species/download> In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to recognize rock paper and scissor using 10 Monkey Species dataset provided by Kaggle <https://www.kaggle.com/sanikamal/rock-paper-scissors-dataset/download> WORKSHOP 6 In this workshop you will implement two data science projects using Scikit Learn Scipy and other libraries with Python GUI In Chapter 1 you will learn how to use Scikit Learn Scipy and other libraries to perform how to predict traffic number of vehicles in four different junctions using Traffic Prediction Dataset provided by Kaggle <https://www.kaggle.com/fedesoriano/traffic-prediction-dataset/download> This dataset contains 48 1k 48120 observations of the number of vehicles each hour in four different junctions 1 DateTime 2 Junction 3 Vehicles and 4 ID In Chapter 2 you will learn how to use Scikit Learn NumPy Pandas and other libraries to perform how to analyze and predict heart attack using Heart Attack Analysis protein_seq parent protein sequence start_position start position of peptide end_position end position of peptide peptide_seq peptide sequence chou_fasman peptide feature emini peptide feature relative surface accessibility kolaskar_tongaonkar peptide feature antigenicity parker peptide feature hydrophobicity isoelectric_point protein feature aromaticity protein feature hydrophobicity protein feature stability protein feature and target antibody valence target value The machine learning models used in this

project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost Gradient Boosting XGB classifier and MLP classifier Then you will learn how to use sequential CNN and VGG16 models to detect and predict Covid 19 X RAY using COVID 19 Xray Dataset Train gender Male Female or Other age age of the patient hypertension 0 if the patient doesn t have hypertension 1 if the patient has hypertension heart_disease 0 if the patient doesn t have any heart diseases 1 if the patient has a heart disease ever_married No or Yes work_type children Govt_jov Never_worked Private or Self employed Residence_type Rural or Urban avg_glucose_level average glucose level in blood bmi body mass index smoking_status formerly smoked never smoked smokes or Unknown and stroke 1 if the patient had a stroke or 0 if not The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting XGB classifier MLP classifier and CNN 1D Finally you will develop a GUI using PyQt5 to plot boundary decision ROC distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy

WORKSHOP 11 In this workshop you will learn how to use Scikit Learn Keras TensorFlow NumPy Pandas Seaborn and other libraries to perform classifying and predicting Hepatitis C using dataset provided by UCI Machine Learning Repository All attributes in dataset except Category and Sex are numerical Attributes 1 to 4 refer to the data of the patient X Patient ID No Category diagnosis values 0 Blood Donor 0s suspect Blood Donor 1 Hepatitis 2 Fibrosis 3 Cirrhosis Age in years Sex f m ALB ALP ALT AST BIL CHE CHOL CREA GGT and PROT The target attribute for classification is Category 2 blood donors vs Hepatitis C patients including its progress just Hepatitis C Fibrosis Cirrhosis The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting XGB classifier MLP classifier and ANN 1D Finally you will develop a GUI using PyQt5 to plot boundary decision ROC distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy

COVID-19: Analisis, Klasifikasi, dan Deteksi

Menggunakan Scikit-Learn, Keras, dan TensorFlow dengan Python GUI Vivian Siahaan, Rismon Hasiholan Sianipar, 2021-09-02 Karena penyebaran COVID 19 pengembangan vaksin dituntut sesegera mungkin Terlepas dari pentingnya analisis data dalam pengembangan vaksin tidak banyak dataset sederhana yang dapat ditangani oleh pada analisis data menggunakan data science Kumpulan data dan kode sampel telah dikumpulkan untuk prediksi epitop Bcell salah satu topik penelitian utama dalam pengembangan vaksin tersedia secara gratis Dataset ini dikembangkan selama proses penelitian dan data yang terkandung di dalamnya diperoleh dari IEDB dan UniProt Sel B yang menginduksi respon imun spesifik antigen in vivo menghasilkan sejumlah besar antibodi spesifik antigen dengan mengenali subregion wilayah epitop protein antigen Sel B ini dapat menghambat fungsinya dengan mengikat antibodi ke protein antigen Memprediksi daerah

epitop bermanfaat untuk desain dan pengembangan vaksin yang bertujuan untuk menginduksi produksi antibodi spesifik antigen Sel B inilah menjadi dataset utama yang dipakai pada proyek ini Dataset ini memuat kolom parent_protein_id protein_seq start_position end_position peptide_seq chou_fasman emini kolaskar_tongaonkar parker hydrophobicity isoelectric_point aromaticity stability dan target Selanjutnya Anda akan belajar menggunakan Scikit Learn Keras TensorFlow NumPy Pandas Seaborn dan sejumlah Pustaka lain untuk memprediksi COVID 19 Epitope menggunakan dataset COVID 19 SARS B cell Epitope Prediction yang disediakan di Kaggle Model model machine learning yang digunakan adalah K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost Gradient Boosting XGB classifier dan MLP classifier Kemudian Anda akan mempelajari cara menerapkan model deep learning CNN sekuensial dan VGG16 untuk mendeteksi dan memprediksi Covid 19 X RAY menggunakan COVID 19 Xray Dataset Train Test Sets yang disediakan di Kaggle Folder itu sendiri terdiri dari dua subfolder test dan train Terakhir Anda akan mengembangkan GUI menggunakan PyQt5 untuk menampilkan batas batas keputusan tiap model ROC distribusi fitur keutamaan fitur skor validasi silang nilai nilai prediksi versus nilai nilai sebenarnya matriks confusion rugi pelatihan dan rugi akurasi

FULL SOURCE CODE: THE COMPLETE GUIDE TO LEARNING POSTGRESQL AND DATA SCIENCE

WITH PYTHON GUI Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-09-01 In this project we provide you with the PostgreSQL version of SQLite sample database named chinook The chinook sample database is a good database for practicing with SQL especially PostgreSQL The detailed description of the database can be found on <https://www.sqlitetutorial.net/sqlite-sample-database/> The sample database consists of 11 tables The employee table stores employees data such as employee id last name first name etc It also has a field named ReportsTo to specify who reports to whom customers table stores customers data invoices The artist table stores artists data It is a simple table that contains only the artist id and name The album table stores data about a list of tracks Each album belongs to one artist However one artist may have multiple albums The media_type table stores media types such as MPEG audio and AAC audio files genre table stores music types such as rock jazz metal etc The track table stores the data of songs Each track belongs to one album playlist the distribution of amount by year quarter month week day and hour the bottom top 10 sales by employee the bottom top 10 sales by customer the bottom top 10 sales by customer the bottom top 10 sales by artist the bottom top 10 sales by genre the bottom top 10 sales by play list the bottom top 10 sales by customer city the bottom top 10 sales by customer city the bottom top 10 sales by customer city the payment amount by month with mean and EWM the average payment amount by every month and amount payment in all years

ZERO TO MASTERY: THE COMPLETE GUIDE TO LEARNING SQL SERVER AND DATA SCIENCE WITH PYTHON GUI

Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-09-29 In this project we provide you with a SQL SERVER version of an Oracle sample database named OT which is based on a global fictitious company that sells computer hardware including storage motherboard RAM video card and CPU The company maintains the product

information such as name description standard cost list price and product line It also tracks the inventory information for all products including warehouses where products are available Because the company operates globally it has warehouses in various locations around the world The company records all customer information including name address and website Each customer has at least one contact person with detailed information including name email and phone The company also places a credit limit on each customer to limit the amount that customer can owe Whenever a customer issues a purchase order a sales order is created in the database with the pending status When the company ships the order the order status becomes shipped In case the customer cancels an order the order status becomes canceled In addition to the sales information the employee data is recorded with some basic information such as name email phone job title manager and hire date In this project you will write Python script to create every table and insert rows of data into each of them You will develop GUI with PyQt5 to each table in the database You will also create GUI to plot case distribution of order date by year quarter month week and day the distribution of amount by year quarter month week day and hour the distribution of bottom 10 sales by product top 10 sales by product bottom 10 sales by customer top 10 sales by customer bottom 10 sales by category top 10 sales by category bottom 10 sales by status top 10 sales by status bottom 10 sales by customer city top 10 sales by customer city bottom 10 sales by customer state top 10 sales by customer state average amount by month with mean and EWM average amount by every month amount feature over June 2016 amount feature over 2017 and amount payment in all years

Learning MariaDB Vivian Siahaan, Rismon Hasiholan Sianipar, 2019-09-03 In this book you will learn how to build from scratch a criminal records management database system using MariaDB Connector J As you know MariaDB server is a community developed fork of MySQL server Started by core members of the original MySQL team MariaDB actively works with outside developers to deliver the most featureful stable and sanely licensed open SQL server in the industry In the first chapter you will be taught how to create Crime database and its tables In the second chapter you will create Suspect table You will be taught to create Java GUI to view edit insert and delete Suspect table data This table has eleven columns suspect_id primary key suspect_name birth_date case_date report_date suspect_status arrest_date mother_name address telephone and photo In the third chapter you will be taught to create Java GUI to view edit insert and delete Feature_Extraction table data This table has eight columns feature_id primary key suspect_id foreign key feature1 feature2 feature3 feature4 feature5 and feature6 All six fields except keys will have a BLOB data type so that the image of the feature will be directly saved into this table In the fourth chapter you will add two tables Police_Station and Investigator These two tables will later be joined to Suspect table through another table File_Case which will be built in the seventh chapter The Police_Station has six columns police_station_id primary key location city province telephone and photo The Investigator has eight columns investigator_id primary key investigator_name rank birth_date gender address telephone and photo Here you will design a Java GUI to display edit fill and delete data in both tables In the fifth chapter you will add two tables Victim and

File_Case The File_Case table will connect four other tables Suspect Police_Station Investigator and Victim The Victim table has nine columns victim_id primary key victim_name crime_type birth_date crime_date gender address telephone and photo The File_Case has seven columns file_case_id primary key suspect_id foreign key police_station_id foreign key investigator_id foreign key victim_id foreign key status and description Here you will also design a Java GUI to display edit fill and delete data in both tables

LEARNING PyQt5 Vivian Siahaan,Rismon Hasiholan Sianipar,2019-09-07 In this book you will learn PyQt5 with accompanied by a step by step tutorial to develop postgresql base applications In the first chapter you will learn to use several widgets in PyQt5 Display a welcome message Use the Radio Button widget Grouping radio buttons Displays options in the form of a check box and Display two groups of check boxes In chapter two you will learn to use the following topics Using Signal Slot Editor Copy and place text from one Line Edit widget to another Convert data types and make a simple calculator Use the Spin Box widget Use scrollbars and sliders Using the Widget List Select a number of list items from one Widget List and display them on another Widget List widget Add items to the Widget List Perform operations on the Widget List Use the Combo Box widget Displays data selected by the user from the Calendar Widget Creating a hotel reservation application and Display tabular data using Table Widgets In the next two chapters you will get introduction of postgresql And then you will learn querying data from the postgresql using Python including establishing a database connection creating a statement object executing the query processing the resultset object querying data using a statement that returns multiple rows querying data using a statement that has parameters inserting data into a table using Python updating data in postgresql database using Python calling postgresql stored function using Python deleting data from a postgresql table using Python and postgresql Python transaction In the fourth chapter you will study Creating the initial three table in the School database project Teacher table Class table and Subject table Creating database configuration files Creating a Python GUI for viewing and navigating the contents of each table Creating a Python GUI for inserting and editing tables and Creating a Python GUI to merge and query the three tables In last chapter you will learn Creating the main form to connect all forms Creating a project that will add three more tables to the school database the Student table the Parent table and the Tuition table Creating a Python GUI to view and navigate the contents of each table Creating a Python GUI for editing inserting and deleting records in each table Create a Python GUI to merge and query the three tables and all six tables Finally this book is hopefully useful for you

In-Depth Tutorials: Deep Learning Using Scikit-Learn, Keras, and TensorFlow with Python GUI Vivian Siahaan,Rismon Hasiholan Sianipar,2021-06-05 BOOK 1 LEARN FROM SCRATCH MACHINE LEARNING WITH PYTHON GUI In this book you will learn how to use NumPy Pandas OpenCV Scikit Learn and other libraries to how to plot graph and to process digital image Then you will learn how to classify features using Perceptron Adaline Logistic Regression LR Support Vector Machine SVM Decision Tree DT Random Forest RF and K Nearest Neighbor KNN models You will also learn how to extract features using Principal Component Analysis PCA Linear Discriminant

Analysis LDA Kernel Principal Component Analysis KPCA algorithms and use them in machine learning In Chapter 1 you will learn Tutorial Steps To Create A Simple GUI Application Tutorial Steps to Use Radio Button Tutorial Steps to Group Radio Buttons Tutorial Steps to Use CheckBox Widget Tutorial Steps to Use Two CheckBox Groups Tutorial Steps to Understand Signals and Slots Tutorial Steps to Convert Data Types Tutorial Steps to Use Spin Box Widget Tutorial Steps to Use ScrollBar and Slider Tutorial Steps to Use List Widget Tutorial Steps to Select Multiple List Items in One List Widget and Display It in Another List Widget Tutorial Steps to Insert Item into List Widget Tutorial Steps to Use Operations on Widget List Tutorial Steps to Use Combo Box Tutorial Steps to Use Calendar Widget and Date Edit and Tutorial Steps to Use Table Widget In Chapter 2 you will learn Tutorial Steps To Create A Simple Line Graph Tutorial Steps To Create A Simple Line Graph in Python GUI Tutorial Steps To Create A Simple Line Graph in Python GUI Part 2 Tutorial Steps To Create Two or More Graphs in the Same Axis Tutorial Steps To Create Two Axes in One Canvas Tutorial Steps To Use Two Widgets Tutorial Steps To Use Two Widgets Each of Which Has Two Axes Tutorial Steps To Use Axes With Certain Opacity Levels Tutorial Steps To Choose Line Color From Combo Box Tutorial Steps To Calculate Fast Fourier Transform Tutorial Steps To Create GUI For FFT Tutorial Steps To Create GUI For FFT With Some Other Input Signals Tutorial Steps To Create GUI For Noisy Signal Tutorial Steps To Create GUI For Noisy Signal Filtering and Tutorial Steps To Create GUI For Wav Signal Filtering In Chapter 3 you will learn Tutorial Steps To Convert RGB Image Into Grayscale Tutorial Steps To Convert RGB Image Into YUV Image Tutorial Steps To Convert RGB Image Into HSV Image Tutorial Steps To Filter Image Tutorial Steps To Display Image Histogram Tutorial Steps To Display Filtered Image Histogram Tutorial Steps To Filter Image With CheckBoxes Tutorial Steps To Implement Image Thresholding and Tutorial Steps To Implement Adaptive Image Thresholding You will also learn Tutorial Steps To Generate And Display Noisy Image Tutorial Steps To Implement Edge Detection On Image Tutorial Steps To Implement Image Segmentation Using Multiple Thresholding and K Means Algorithm Tutorial Steps To Implement Image Denoising Tutorial Steps To Detect Face Eye and Mouth Using Haar Cascades Tutorial Steps To Detect Face Using Haar Cascades with PyQt Tutorial Steps To Detect Eye and Mouth Using Haar Cascades with PyQt Tutorial Steps To Extract Detected Objects Tutorial Steps To Detect Image Features Using Harris Corner Detection Tutorial Steps To Detect Image Features Using Shi Tomasi Corner Detection Tutorial Steps To Detect Features Using Scale Invariant Feature Transform SIFT and Tutorial Steps To Detect Features Using Features from Accelerated Segment Test FAST In Chapter 4 In this tutorial you will learn how to use Pandas NumPy and other libraries to perform simple classification using perceptron and Adaline adaptive linear neuron The dataset used is Iris dataset directly from the UCI Machine Learning Repository You will learn Tutorial Steps To Implement Perceptron Tutorial Steps To Implement Perceptron with PyQt Tutorial Steps To Implement Adaline ADaptive LInear NEuron and Tutorial Steps To Implement Adaline with PyQt In Chapter 5 you will learn how to use the scikit learn machine learning library which provides a wide variety of machine learning algorithms via a user

friendly Python API and to perform classification using perceptron Adaline adaptive linear neuron and other models The dataset used is Iris dataset directly from the UCI Machine Learning Repository You will learn Tutorial Steps To Implement Perceptron Using Scikit Learn Tutorial Steps To Implement Perceptron Using Scikit Learn with PyQt Tutorial Steps To Implement Logistic Regression Model Tutorial Steps To Implement Logistic Regression Model with PyQt Tutorial Steps To Implement Logistic Regression Model Using Scikit Learn with PyQt Tutorial Steps To Implement Support Vector Machine SVM Using Scikit Learn Tutorial Steps To Implement Decision Tree DT Using Scikit Learn Tutorial Steps To Implement Random Forest RF Using Scikit Learn and Tutorial Steps To Implement K Nearest Neighbor KNN Using Scikit Learn In Chapter 6 you will learn how to use Pandas NumPy Scikit Learn and other libraries to implement different approaches for reducing the dimensionality of a dataset using different feature selection techniques You will learn about three fundamental techniques that will help us to summarize the information content of a dataset by transforming it onto a new feature subspace of lower dimensionality than the original one Data compression is an important topic in machine learning and it helps us to store and analyze the increasing amounts of data that are produced and collected in the modern age of technology You will learn the following topics Principal Component Analysis PCA for unsupervised data compression Linear Discriminant Analysis LDA as a supervised dimensionality reduction technique for maximizing class separability Nonlinear dimensionality reduction via Kernel Principal Component Analysis KPCA You will learn Tutorial Steps To Implement Principal Component Analysis PCA Tutorial Steps To Implement Principal Component Analysis PCA Using Scikit Learn Tutorial Steps To Implement Principal Component Analysis PCA Using Scikit Learn with PyQt Tutorial Steps To Implement Linear Discriminant Analysis LDA Tutorial Steps To Implement Linear Discriminant Analysis LDA with Scikit Learn Tutorial Steps To Implement Linear Discriminant Analysis LDA Using Scikit Learn with PyQt Tutorial Steps To Implement Kernel Principal Component Analysis KPCA Using Scikit Learn and Tutorial Steps To Implement Kernel Principal Component Analysis KPCA Using Scikit Learn with PyQt In Chapter 7 you will learn how to use Keras Scikit Learn Pandas NumPy and other libraries to perform prediction on handwritten digits using MNIST dataset You will learn Tutorial Steps To Load MNIST Dataset Tutorial Steps To Load MNIST Dataset with PyQt Tutorial Steps To Implement Perceptron With PCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Perceptron With LDA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Perceptron With KPCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Logistic Regression LR Model With PCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Logistic Regression LR Model With LDA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Logistic Regression LR Model With KPCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Support Vector Machine SVM Model With LDA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To Implement Support Vector Machine SVM Model With KPCA Feature Extractor on MNIST

Dataset Using PyQt Tutorial Steps To Implement Decision Tree DT Model With PCA Feature Extractor on MNIST Dataset
Using PyQt Tutorial Steps To Implement Decision Tree DT Model With LDA Feature Extractor on MNIST Dataset Using PyQt
Tutorial Steps To Implement Decision Tree DT Model With KPCA Feature Extractor on MNIST Dataset Using PyQt Tutorial
Steps To Implement Random Forest RF Model With PCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To
Implement Random Forest RF Model With LDA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To
Implement Random Forest RF Model With KPCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To
Implement K Nearest Neighbor KNN Model With PCA Feature Extractor on MNIST Dataset Using PyQt Tutorial Steps To
Implement K Nearest Neighbor KNN Model With LDA Feature Extractor on MNIST Dataset Using PyQt and Tutorial Steps To
Implement K Nearest Neighbor KNN Model With KPCA Feature Extractor on MNIST Dataset Using PyQt

BOOK 2 THE PRACTICAL GUIDES ON DEEP LEARNING USING SCIKIT LEARN KERAS AND TENSORFLOW WITH PYTHON GUI

In this book you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to implement deep learning on recognizing traffic signs using GTSRB dataset detecting brain tumor using Brain Image MRI dataset classifying gender and recognizing facial expression using FER2013 dataset In Chapter 1 you will learn to create GUI applications to display line graph using PyQt You will also learn how to display image and its histogram In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn Pandas NumPy and other libraries to perform prediction on handwritten digits using MNIST dataset with PyQt You will build a GUI application for this purpose In Chapter 3 you will learn how to perform recognizing traffic signs using GTSRB dataset from Kaggle There are several different types of traffic signs like speed limits no entry traffic signals turn left or right children crossing no passing of heavy vehicles etc Traffic signs classification is the process of identifying which class a traffic sign belongs to In this Python project you will build a deep neural network model that can classify traffic signs in image into different categories With this model you will be able to read and understand traffic signs which are a very important task for all autonomous vehicles You will build a GUI application for this purpose In Chapter 4 you will learn how to perform detecting brain tumor using Brain Image MRI dataset provided by Kaggle <https://www.kaggle.com/navoneel/brain-mri-images-for-brain-tumor-detection> using CNN model You will build a GUI application for this purpose In Chapter 5 you will learn how to perform classifying gender using dataset provided by Kaggle <https://www.kaggle.com/cashutosh/gender-classification-dataset> using MobileNetV2 and CNN models You will build a GUI application for this purpose In Chapter 6 you will learn how to perform recognizing facial expression using FER2013 dataset provided by Kaggle <https://www.kaggle.com/nicolejyt/facialexpressionrecognition> using CNN model You will also build a GUI application for this purpose

BOOK 3 STEP BY STEP TUTORIALS ON DEEP LEARNING USING SCIKIT LEARN KERAS AND TENSORFLOW WITH PYTHON GUI

In this book you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to implement deep learning on classifying fruits classifying cats dogs detecting furnitures and classifying fashion In

Chapter 1 you will learn to create GUI applications to display line graph using PyQt You will also learn how to display image and its histogram Then you will learn how to use OpenCV NumPy and other libraries to perform feature extraction with Python GUI PyQt The feature detection techniques used in this chapter are Harris Corner Detection Shi Tomasi Corner Detector and Scale Invariant Feature Transform SIFT In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform classifying fruits using Fruits 360 dataset provided by Kaggle <https://www.kaggle.com/moltean/fruits> code using Transfer Learning and CNN models You will build a GUI application for this purpose In Chapter 3 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform classifying cats dogs using dataset provided by Kaggle <https://www.kaggle.com/chetankv/dogs> cats images using Using CNN with Data Generator You will build a GUI application for this purpose In Chapter 4 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform detecting furnitures using Furniture Detector dataset provided by Kaggle <https://www.kaggle.com/akkithetechie/furniture-detector> using VGG16 model You will build a GUI application for this purpose In Chapter 5 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform classifying fashion using Fashion MNIST dataset provided by Kaggle <https://www.kaggle.com/zalando-research/fashionmnist> code using CNN model You will build a GUI application for this purpose

BOOK 4 Project Based Approach On DEEP LEARNING Using Scikit Learn Keras And TensorFlow with Python GUI In this book implement deep learning on detecting vehicle license plates recognizing sign language and detecting surface crack using TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries In Chapter 1 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform detecting vehicle license plates using Car License Plate Detection dataset provided by Kaggle <https://www.kaggle.com/andrewmvd/car-plate-detection> download In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform sign language recognition using Sign Language Digits Dataset provided by Kaggle <https://www.kaggle.com/ardamavi/sign-language-digits> dataset download In Chapter 3 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform detecting surface crack using Surface Crack Detection provided by Kaggle <https://www.kaggle.com/arunrk7/surface-crack-detection> download

BOOK 5 Hands On Guide To IMAGE CLASSIFICATION Using Scikit Learn Keras And TensorFlow with PYTHON GUI In this book implement deep learning based image classification on detecting face mask classifying weather and recognizing flower using TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries In Chapter 1 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform detecting face mask using Face Mask Detection Dataset provided by Kaggle <https://www.kaggle.com/omkargurav/face-mask-detection> dataset download In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to classify weather using Multi class Weather Dataset provided by Kaggle

<https://www.kaggle.com/pratik2901/multiclass-weather-dataset-download> In Chapter 3 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to recognize flower using Flowers Recognition dataset provided by Kaggle <https://www.kaggle.com/alxmamaev/flowers-recognition-download> BOOK 6 Step by Step Tutorial IMAGE CLASSIFICATION Using Scikit Learn Keras And TensorFlow with PYTHON GUI In this book implement deep learning based image classification on classifying monkey species recognizing rock paper and scissor and classify airplane car and ship using TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries In Chapter 1 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to classify monkey species using 10 Monkey Species dataset provided by Kaggle <https://www.kaggle.com/slothkong/10-monkey-species-download> In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to recognize rock paper and scissor using 10 Monkey Species dataset provided by Kaggle <https://www.kaggle.com/sanikamal/rock-paper-scissors-dataset-download> In Chapter 3 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to classify airplane car and ship using Multiclass image dataset airplane car ship dataset provided by Kaggle <https://www.kaggle.com/abtabm/multiclassimage-dataset-airplane-car> **PYTHON GUI**

PROJECTS WITH MACHINE LEARNING AND DEEP LEARNING Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-01-16
PROJECT 1 THE APPLIED DATA SCIENCE WORKSHOP Prostate Cancer Classification and Recognition Using Machine Learning and Deep Learning with Python GUI Prostate cancer is cancer that occurs in the prostate The prostate is a small walnut shaped gland in males that produces the seminal fluid that nourishes and transports sperm Prostate cancer is one of the most common types of cancer Many prostate cancers grow slowly and are confined to the prostate gland where they may not cause serious harm However while some types of prostate cancer grow slowly and may need minimal or even no treatment other types are aggressive and can spread quickly The dataset used in this project consists of 100 patients which can be used to implement the machine learning and deep learning algorithms The dataset consists of 100 observations and 10 variables out of which 8 numeric variables and one categorical variable and is ID which are as follows Id Radius Texture Perimeter Area Smoothness Compactness Diagnosis Result Symmetry and Fractal Dimension The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting XGB classifier MLP classifier and CNN 1D Finally you will develop a GUI using PyQt5 to plot boundary decision ROC distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy **PROJECT 2 THE APPLIED DATA SCIENCE WORKSHOP** Urinary Biomarkers Based Pancreatic Cancer Classification and Prediction Using Machine Learning with Python GUI Pancreatic cancer is an extremely deadly type of cancer Once diagnosed the five year survival rate is less than 10% However if pancreatic cancer is caught early the odds of surviving are

much better Unfortunately many cases of pancreatic cancer show no symptoms until the cancer has spread throughout the body A diagnostic test to identify people with pancreatic cancer could be enormously helpful In a paper by Silvana Debernardi and colleagues published this year in the journal PLOS Medicine a multi national team of researchers sought to develop an accurate diagnostic test for the most common type of pancreatic cancer called pancreatic ductal adenocarcinoma or PDAC They gathered a series of biomarkers from the urine of three groups of patients Healthy controls Patients with non cancerous pancreatic conditions like chronic pancreatitis and Patients with pancreatic ductal adenocarcinoma When possible these patients were age and sex matched The goal was to develop an accurate way to identify patients with pancreatic cancer The key features are four urinary biomarkers creatinine LYVE1 REG1B and TFF1 Creatinine is a protein that is often used as an indicator of kidney function YVLE1 is lymphatic vessel endothelial hyaluronan receptor 1 a protein that may play a role in tumor metastasis REG1B is a protein that may be associated with pancreas regeneration TFF1 is trefoil factor 1 which may be related to regeneration and repair of the urinary tract The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting XGB classifier and MLP classifier Finally you will develop a GUI using PyQt5 to plot boundary decision ROC distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy

PROJECT 3 DATA SCIENCE CRASH COURSE

Voice Based Gender Classification and Prediction Using Machine Learning and Deep Learning with Python GUI

This dataset was created to identify a voice as male or female based upon acoustic properties of the voice and speech The dataset consists of 3 168 recorded voice samples collected from male and female speakers The voice samples are pre processed by acoustic analysis in R using the seewave and tuneR packages with an analyzed frequency range of 0hz 280hz human vocal range The following acoustic properties of each voice are measured and included within the CSV meanfreq mean frequency in kHz sd standard deviation of frequency median median frequency in kHz Q25 first quantile in kHz Q75 third quantile in kHz IQR interquantile range in kHz skew skewness kurt kurtosis sp ent spectral entropy sfm spectral flatness mode mode frequency centroid frequency centroid see specprop peakf peak frequency frequency with highest energy meanfun average of fundamental frequency measured across acoustic signal minfun minimum fundamental frequency measured across acoustic signal maxfun maximum fundamental frequency measured across acoustic signal meandom average of dominant frequency measured across acoustic signal mindom minimum of dominant frequency measured across acoustic signal maxdom maximum of dominant frequency measured across acoustic signal dfrange range of dominant frequency measured across acoustic signal modindx modulation index Calculated as the accumulated absolute difference between adjacent measurements of fundamental frequencies divided by the frequency range and label male or female The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support

Vector Machine Adaboost LGBM classifier Gradient Boosting XGB classifier MLP classifier and CNN 1D Finally you will develop a GUI using PyQt5 to plot boundary decision ROC distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy

PROJECT 4 DATA SCIENCE CRASH COURSE

Thyroid Disease Classification and Prediction Using Machine Learning and Deep Learning with Python GUI

Thyroid disease is a general term for a medical condition that keeps your thyroid from making the right amount of hormones Thyroid typically makes hormones that keep body functioning normally When the thyroid makes too much thyroid hormone body uses energy too quickly The two main types of thyroid disease are hypothyroidism and hyperthyroidism Both conditions can be caused by other diseases that impact the way the thyroid gland works

Dataset used in this project was from Garavan Institute Documentation as given by Ross Quinlan 6 databases from the Garavan Institute in Sydney Australia Approximately the following for each database 2800 training data instances and 972 test instances This dataset contains plenty of missing data while 29 or so attributes either Boolean or continuously valued The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting XGB classifier MLP classifier and CNN 1D Finally you will develop a GUI using PyQt5 to plot boundary decision ROC distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy

RFM ANALYSIS AND K-MEANS CLUSTERING: A CASE STUDY ANALYSIS, CLUSTERING, AND PREDICTION ON RETAIL STORE TRANSACTIONS WITH PYTHON

GUI Vivian Siahaan, Rismon Hasiholan Sianipar, 2023-07-07

In this case study we will explore RFM Recency Frequency Monetary analysis and K means clustering techniques for retail store transaction data RFM analysis is a powerful method for understanding customer behavior by segmenting them based on their transaction history K means clustering is a popular unsupervised machine learning algorithm used for grouping similar data points We will leverage these techniques to gain insights perform customer segmentation and make predictions on retail store transactions The case study involves a retail store dataset that contains transaction records including customer IDs transaction dates purchase amounts and other relevant information This dataset serves as the foundation for our RFM analysis and clustering RFM analysis involves evaluating three key aspects of customer behavior recency frequency and monetary value Recency refers to the time since a customer's last transaction frequency measures the number of transactions made by a customer and monetary value represents the total amount spent by a customer By analyzing these dimensions we can segment customers into different groups based on their purchasing patterns Before conducting RFM analysis we need to preprocess and transform the raw transaction data This includes cleaning the data aggregating it at the customer level and calculating the recency frequency and monetary metrics for each customer These transformed RFM metrics will be used for segmentation and clustering Using

the RFM metrics we can apply clustering algorithms such as K means to group customers with similar behaviors together K means clustering aims to partition the data into a predefined number of clusters based on their feature similarities By clustering customers we can identify distinct groups with different purchasing behaviors and tailor marketing strategies accordingly K means is an iterative algorithm that assigns data points to clusters in a way that minimizes the within cluster sum of squares It starts by randomly initializing cluster centers and then iteratively updates them until convergence The resulting clusters represent distinct customer segments based on their RFM metrics To determine the optimal number of clusters for our K means analysis we can employ elbow method This method help us identify the number of clusters that provide the best balance between intra cluster similarity and inter cluster dissimilarity Once the K means algorithm has assigned customers to clusters we can analyze the characteristics of each cluster This involves examining the RFM metrics and other relevant customer attributes within each cluster By understanding the distinct behavior patterns of each cluster we can tailor marketing strategies and make targeted business decisions Visualizations play a crucial role in presenting the results of RFM analysis and K means clustering We can create various visual representations such as scatter plots bar charts and heatmaps to showcase the distribution of customers across clusters and the differences in RFM metrics between clusters These visualizations provide intuitive insights into customer segmentation The objective of this data science project is to analyze and predict customer behavior in the groceries market using Python and create a graphical user interface GUI using PyQt The project encompasses various stages starting from exploring the dataset and visualizing the distribution of features to RFM analysis K means clustering predicting clusters with machine learning algorithms and implementing a GUI for user interaction Once we have the clusters we can utilize machine learning algorithms to predict the cluster for new or unseen customers We train various models including logistic regression support vector machines decision trees k nearest neighbors random forests gradient boosting naive Bayes adaboost XGBoost and LightGBM on the clustered data These models learn the patterns and relationships between customer features and their assigned clusters enabling us to predict the cluster for new customers accurately To evaluate the performance of our models we utilize metrics such as accuracy precision recall and F1 score These metrics allow us to measure the models predictive capabilities and compare their performance across different algorithms and preprocessing techniques By assessing the models performance we can select the most suitable model for cluster prediction in the groceries market analysis In addition to the analysis and prediction components this project aims to provide a user friendly interface for interaction and visualization To achieve this we implement a GUI using PyQt a Python library for creating desktop applications The GUI allows users to input new customer data and predict the corresponding cluster based on the trained models It provides visualizations of the analysis results including cluster distributions confusion matrices and decision boundaries The GUI allows users to select different machine learning models and preprocessing techniques through radio buttons or dropdown menus This flexibility empowers users to explore and compare the

performance of various models enabling them to choose the most suitable approach for their specific needs The GUI's interactive nature enhances the usability of the project and promotes effective decision making based on the analysis results

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