# Orchestrating Multi-Agent Systems for Multi-Source Information Retrieval and Question Answering with Large Language Models

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<sup>4</sup> BNDEN - Area de Termitagia da Informação, Rip de Jusciro, Rossilla PUC-Rio - Departamento de Informática, Rio de Jusciro, Rossilla

Abstract. We present a movel framework for developing indust multi-source questionmovers concern by dynamically integrating Large Language Markets with discrete data moreon. This framework betweenages a multi-agent architecture to consolinate the rentered and syntheric of information from unitiral torsel observations, bile PDFs, and structured databases. Speciational agents, including SQL agents, Retrieval Augmented Gournalism agents, and contenagents, dynamically extent and constant the mean multiplic retrieval standarder for each query. To enfance symposium relevance and asymmetry, the formework simplicin adaptive prompt magineering, fine-tuned to the openible requirements of confusion. We demonstrate the effectiveness of this approach in the demands of Contract Management, when assessing compiles question offsite demands manufact collaboration between structured and inserting compiles question offsite demands assessing collaboration between structured and inserting compiles grantly highlight, the framework's copposition proteins, embryour applications.

SCrywards: Information Hetrieval, Question Assert, Large Language Models, Documents, Databases, Prompt Engineering, Bettieval Augmented Communics, Text-to-SQL.

#### 1. East coordinate Clears

The rapid evolution of Large Language Models (LLMs) has transformed the fields of information retrieval and question-superving (QEA) systems, enabling significant advancements in understanding and generating bosons. This text. These expubilities have unlocked new possibilities for retrieving precise and contentually relevant information from diverse sources. However, integrating data from beterogeneous sources - such as unstructured text decorates, structured databases, and real-time APIs - into a unified system remains a complex challenge. Traditional systems offer full short in managing this complexity, strugging to retrieve and correlate information screen varying formats, which can resupercusise the accuracy and reference of responses. This challenge highlights the need for nephraticated frameworks that can dynamically oreheatened and retrieve information from problique sources while leveraging the contextual understanding offered by LLMs.

Preferenceds across industries often lies the dounting task of surrigating root amounts of anatractured text while simultaneously accessing structured data. This process is not only labor-introduce but also error-prises, as locating specific information and entrelating it across disparate sources can be difficult. For example, in Contract Management, retrieving details from both lengthy contract documents and structured database recorded often requires extracted unional effort. Easies such as identifying penalties. SLAs, or dead-lines located within lengths of pages and linking them with structured metadata demand significant time and attention to detail.

To address these issues, we propose a dynamic midtle-agent framework that leverages adsusced techniques in outlandration and retrieval to enhance the capabilities of multi-source

# **Applications Of Question Answer Systems**

**Claude Cordell Green** 

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The Application of Theorem Proving to Question-answering Systems Claude Cordell Green, 1970 The paper shows how a question answering system can use first order logic as its language and an automatic theorem prover based upon the resolution inference principle as its deductive mechanism The resolution proof procedure is extended to a constructive proof procedure An answer construction algorithm is given whereby the system is able not only to produce yes or no answers but also to find or construct an object satisfying a specified condition A working computer program QA3 based on these ideas is described Methods are presented for solving state transformation problems In addition to question answering the program can do automatic programming control and problem solving for a simple robot pattern recognition and puzzles Author

Intelligent Systems Design and Applications Ajith Abraham, Aswani Kumar Cherukuri, Patricia Melin, Niketa Gandhi, 2019-04-13 This book highlights recent research on Intelligent Systems and Nature Inspired Computing It presents 212 selected papers from the 18th International Conference on Intelligent Systems Design and Applications ISDA 2018 and the 10th World Congress on Nature and Biologically Inspired Computing NaBIC which was held at VIT University India ISDA NaBIC 2018 was a premier conference in the field of Computational Intelligence and brought together researchers engineers and practitioners whose work involved intelligent systems and their applications in industry and the real world Including contributions by authors from over 40 countries the book offers a valuable reference guide for all researchers students and practitioners in the fields of Computer Science and Engineering **Computational Science and Its Applications -**ICCSA 2023 Workshops Osvaldo Gervasi, Beniamino Murgante, Ana Maria A. C. Rocha, Chiara Garau, Francesco Scorza, Yeliz Karaca, Carmelo M. Torre, 2023-06-29 This nine volume set LNCS 14104 14112 constitutes the refereed workshop proceedings of the 23rd International Conference on Computational Science and Its Applications ICCSA 2023 held at Athens Greece during July 3 6 2023 The 350 full papers and 29 short papers and 2 PHD showcase papers included in this volume were carefully reviewed and selected from a total of 876 submissions. These nine volumes includes the proceedings of the following workshops Advances in Artificial Intelligence Learning Technologies Blended Learning STEM Computational Thinking and Coding AAILT 2023 Advanced Processes of Mathematics and Computing Models in Complex Computational Systems ACMC 2023 Artificial Intelligence supported Medical data examination AIM 2023 Advanced and Innovative web Apps AIWA 2023 Assessing Urban Sustainability ASUS 2023 Advanced Data Science Techniques with applications in Industry and Environmental Sustainability ATELIERS 2023 Advances in Web Based Learning AWBL 2023 Blockchain and Distributed Ledgers Technologies and Applications BDLTA 2023 Bio and Neuro inspired Computing and Applications BIONCA 2023 Choices and Actions for Human Scale Cities Decision Support Systems CAHSC DSS 2023 and Computational and Applied **Application of Intelligent Systems in Multi-modal** Information Analytics Vijayan Sugumaran, Zheng Xu, Huiyu Zhou, 2021-04-16 This book provides comprehensive coverage

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International Conference on Computer Applications 2012 :: Volume 04 Kokula Krishna Hari K, <u>Emerging Applications of Natural Language Processing: Concepts and New Research</u> Bandyopadhyay, Sivaji, Naskar, Sudip Kumar, Ekbal, Asif, 2012-10-31 This book provides pertinent and vital information that researchers postgraduate doctoral students and practitioners are seeking for learning about the latest discoveries and advances in NLP methodologies and applications of NLP Provided by publisher **Intelligent Computing Methodologies** De-Shuang Huang, M. Michael Gromiha, Kyungsook Han, Abir Hussain, 2018-08-08 This book constitutes in conjunction with the two volume set LNCS 10954 and LNCS 10955 the

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