👩 Teacher Portal
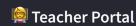
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What Are Student Struggling With?

Overview

This dataset includes a series of 30 questions related to Retrieval-Augmented Generation (RAG) and other essential topics in Natural Language Processing (NLP), particularly focusing on language models, word representations, and their applications in various domains. The questions were asked between April 15, 2025, and April 20, 2025.

Key Insights

- **Total Questions:** 20 questions focused specifically on Retrieval-Augmented Generation (RAG), representing 66.67% of the dataset.

Topic Coverage:

- **Word Representation and Text Classification:** 5 questions (16.67%)
- **Language Modeling:** 5 questions (16.67%)
- **RAG and Related Topics:** 10 questions (50%) focus specifically on the Retrieval-Augmented Generation (RAG) model.

Challenges and Benefits of RAG:

- Focus on exploring the advantages, challenges, and application scenarios for RAG-based systems.

Most Discussed Aspects of RAG:

- **External Knowledge Integration:** Several questions focus on how RAG models retrieve and integrate external data during inference (3 questions).
- **Efficiency and Performance:** Key insights discuss the efficiency improvements brought by RAG models in comparison to traditional generative models (2 questions).
- **Challenges:** Multiple questions are aimed at understanding the practical challenges involved in implementing RAG systems (2 questions).

Key Metrics

- **Time Span:** Questions asked from April 15, 2025, to April 20, 2025.
- **Average Frequency of Questions:** Approximately 4 questions per day on average during the 6-day span.
- **RAG-specific Focus:** 66.67% of all questions were related to RAG, making it the central theme of this dataset.
- **Question Types:** Primarily technical and application-focused, addressing core concepts such as integration of external knowledge, retrieval mechanisms, and model performance.

Most Common Themes in RAG Questions

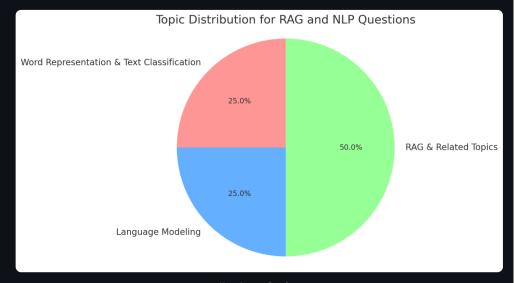- **Efficiency:** Emphasis on how RAG models enhance performance in NLP tasks.

- **External Knowledge Integration:** A significant focus on how retrieval works and impacts the accuracy of language models.
- **Challenges in Implementation:** A recurring theme addressing the practical challenges faced when deploying RAG models.

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