

Project Documentation

Project Name: Automatic Rubrics Generator System

Abstract:

The Automatic Rubrics Generator System project focuses on enhancing the efficiency and reliability of grading by leveraging advanced AI technologies. Integrating Chroma's robust vector database engine with a Large Language Model (LLM), the system generates accurate and customizable rubrics tailored to specific assignment requirements. The project's primary objective is to streamline the rubric creation process, providing educators with a powerful tool to ensure consistent and fair grading.

Project Period:

[05/12/2024] – [07/13/2024]

Repository and Documentation:

- **GitHub Repository:** Contains the source code and documentation of the Automatic Rubrics Generator System project. [[Github Link](#)]
- **Project Report:** Detailed documentation outlining the project objectives, methodology, and outcomes. [[Report](#)]
- **PowerPoint Slide Deck:** A presentation summarizing key insights, findings, and implications of the project. [[PPT](#)]
- **Tutorial Video:** A step-by-step guide through building and deploying your own rubric generator application. [[Video Link](#)]
- **Application:** A link to interact with the application, allowing users to generate rubrics based on provided documents. [[App Link](#)]

Project Overview:

The Automatic Rubrics Generator System aims to revolutionize the grading process by providing a user-friendly application that generates rubrics automatically. By utilizing advanced AI techniques such as prompt engineering and similarity search, combined with Chroma for efficient data storage and retrieval, the system ensures precise and relevant rubric generation. The integration with Streamlit offers an intuitive interface for educators to select options and upload documents, facilitating seamless interaction with the AI.

The project's methodology includes iterative development, testing, and user feedback incorporation to enhance usability and functionality. The collaborative efforts ensure the delivery of a robust and innovative solution tailored to modern educational needs.

Conclusion:

In conclusion, the Automatic Rubrics Generator System represents a significant advancement in educational technology. By leveraging semantic search, Large Language Models, and Chroma, the system streamlines the rubric creation process, enhancing grading consistency and reliability. The project's comprehensive documentation and insightful analysis provide valuable insights for further research and development in the field of AI-driven educational tools. The lessons learned from this project will inform future endeavors, driving innovation and collaboration in digital learning solutions.

Request for Offer Extension

Considering the successful completion of the Automatic Rubrics Generator System project, I am excited to propose the next phase of development: an Automatic Grading System. This new system will grade assignments based on the rubrics generated, further enhancing the efficiency and reliability of the grading process.

The Automatic Grading System will leverage the existing rubric generator's capabilities, integrating advanced AI models to evaluate student submissions against the predefined criteria. This project aims to provide educators with a comprehensive tool that not only generates rubrics but also automates the grading process, ensuring consistency and saving valuable time.

I am seeking an extension on my offer to continue this innovative work. The outcomes of the Automatic Rubrics Generator System demonstrate a tangible impact on educational technology, fulfilling the probationary period requirements and contributing significantly to the field. Extending my offer will enable me to further advance our goals and develop a comprehensive AI-powered grading solution.

Thank you for considering my request. I look forward to the opportunity to continue contributing to our mission and advancing educational technology.