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| Email Classification LLM  Reflection | |
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Introduction

This document serves as a comprehensive reflection on my internship at B\_Robots, a Belgian company specializing in AI and NLP services. It is structured to provide a dual perspective: a substantive reflection on the project I carried out, detailing my accomplishments, their impact, and future recommendations, and a personal reflection, exploring my learning, growth, and the challenges I faced.

Accomplishments and Impact for the Client's Organization and Users

During my internship, I successfully developed a pipeline for email classification using the BERT model. This system streamlined B\_Robots' email processing, enhancing efficiency and accuracy. It yielded significant benefits for the organization by improving data management and for the users by providing quicker and more accurate email categorization.

Completion Status and Remaining Tasks

The project, while achieving its primary goals, is not entirely complete. Future work includes integrating the Falcon7b model for enhanced performance and expanding the dataset for broader classification capabilities. Additionally, implementing advanced security features remains a crucial task to ensure data protection and system integrity.

Utilization of Developed Work

The BERT-based classification system has been put into preliminary use, showing promising results in improving email processing. Its current application is a testament to the project's success and lays the groundwork for further enhancements.

Advice for the Principal for the Future

I advise B\_Robots to continue refining the AI model, focusing on expanding its dataset and integrating more advanced models like Falcon7b. Emphasizing continuous learning and adaptation will ensure the system remains effective and relevant.

Personal Meaning of the Internship

This internship has been a pivotal experience in my career path, aligning perfectly with my passion for AI and machine learning. It provided a unique opportunity to apply my academic knowledge in a practical setting, reinforcing my commitment to pursuing a career in this field.

Learnings and Competency Development

I learned invaluable skills in AI model training, cloud computing, and API development. My competencies in problem-solving, technical proficiency in machine learning, and understanding of real-world AI applications were significantly enhanced.

Growth and How I Achieved It

The internship was a journey of personal and professional growth. I developed resilience and adaptability, particularly when navigating the challenges of pivoting from Falcon7b to BERT. My approach to problem-solving matured, becoming more methodical and innovative.

Problems Faced and Solutions

I encountered challenges in model selection and data preprocessing. These were addressed through extensive research, collaboration with the team, and experimenting with different methodologies. Overcoming these obstacles not only solved immediate issues but also enriched my problem-solving toolkit.

Conclusion

Reflecting on my internship at B\_Robots, I am profoundly grateful for the experience. It was not just a professional assignment but a journey that significantly contributed to my personal and professional development. The skills and insights gained during this period are invaluable assets that will undoubtedly influence my future career in computer science.