**Building an E-Commerce FAQ Chatbot Using Parameter Efficient Fine Tuning with LoRA Technique**

**Abstract:**

This project aims to develop a FAQ chatbot for an E-Commerce site by leveraging Large Language Models (LLMs). We adopt a fine-tuning approach using a small-size model, Falcon-7B, and employ Parameter Efficient Fine Tuning (PEFT) with LoRA Technique to enhance the model's performance. The chatbot is trained on a custom dataset extracted from a Kaggle dataset, addressing common user queries. The fine-tuned model is made available on Hugging Face, accompanied by a comprehensive Jupyter notebook providing code and explanations. The potential of hosting a Streamlit app is explored, considering resource limitations.