

# Ankush Mulkar

## NLP Engineer

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<https://ankushmulkar.github.io/Portfolio/>

### SUMMARY

Experienced NLP Engineer with a robust background in developing and integrating advanced Generative AI applications and NLP systems. Proficient in utilizing frameworks such as Langchain, TensorFlow, AWS Sagemaker, and AWS Jumpstart. Expert in advanced techniques including fine-tuning LLM with instruction tuning, PEFT, LORA, QLORA, prompt tuning, and RLHF. Demonstrated skills in Proximal Policy Optimization, ensuring the seamless operation and optimization of AI models and systems. Committed to continuously enhancing LLM and delivering state-of-the-art generative AI applications that exceed customer expectations

### SKILLS

Python, TensorFlow, Text Preprocessing, Hugging Face Transformers, OpenAI API, Streamlit, Langchain, SQLite, Machine Learning Algorithms, Fine-tuning LLM, Reinforcement Learning with Human Feedback, Prompt Engineering, Prompt Tuning, Chain of Thought Prompting, RAG, Deployment, Integration

### EXPERIENCE

#### TechAxenic NLP Engineer

June 2022 - Sept 2023

- Participated in end-to-end NLP projects, collaborating with cross-functional teams to deliver user-aligned solutions
- Developed a semantic similarity classifier utilizing fine-tuned BERT model and Hugging face transformer, TensorFlow, optimizing chatbot support
- Developed an AI-driven chatbot for engaging and informative conversations on solar energy using OpenAI GPT-3.5 Turbo
- Designed, deployed, and integrated an AI assistant using sshleifer/distilbart-cnn-12-6, enhancing user interaction on the client's website
- Utilized Langchain and Falcon-7B-Instruct to generate captivating content autonomously for a news blog agency
- Utilized Hugging Face's pre-trained models to develop and deploy cutting-edge NLP applications, enhancing natural language understanding and user experience
- Orchestrated complete NLP systems, including web scraping, API integration, preprocessing, training, & tuning
- Demonstrated proficiency in managing database systems like SQLite and MySQL, optimizing data storage for NLP projects

#### Bhaskar Solutions Machine learning Intern

January 2022 - May 2022

- Successfully pre-processed and transformed raw data to create reliable datasets for machine learning projects
- Developed & implemented feature engineering strategies that enhanced model capabilities and predictive accuracy
- With expertise in boosting algorithms, I enhanced predictive models, optimized parameters using Grid Search, and rigorously evaluated performance using established metrics

### EDUCATION

#### Master of Science in Machine learning Liverpool John Moores University, Liverpool

2023 – 2024

#### Executive Post Graduate Program in Artificial Intelligence & Machine Learning International Institute of Information Technology, Bangalore

2021 – 2022

#### Bachelor of Engineering in Electrical Engineering Nagpur University

2011 – 2014