Suyash Ambule

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Summary

Results-driven AI professional with expertise in MLOps, Deep Learning, Large Language Models (LLMs), and Statistical Analysis. Proficient in Python, SQL, and advanced deep learning frameworks. Successfully implemented end-to-end MLOps pipelines, improving model deployment efficiency by 30%. Passionate about leveraging data science for sustainable, inclusive business solutions while fostering team collaboration.

Technologies

- **Programming**: Python, Machine Learning, Deep Learning, Feature Engineering (Extraction & Selection)
- **Learning Architectures**: ANN, CNN, RNN, Auto-Encoders, Transformer models
- **Large Language Models (LLMs)**: LangChain, QLoRA fine-tuning, RAG (Retrieval-Augmented Generation)
- **Frameworks & Tools**: NumPy, Pandas, Scikit-Learn, TensorFlow, Keras, PyTorch, NLTK, BeautifulSoup, Selenium
- **Data Visualization**: Matplotlib, Seaborn, Power BI
- **Databases**: MySQL, MongoDB
- **MLOps Tools**: Docker, AWS, YAML, Git, CI/CD pipelines, Kubernetes

Work Experience

House of Couton | Sep 2024 - Nov 2024
Research Intern (AI/ML)

- - Conducted exploratory data analysis on large datasets, uncovering actionable insights for decision-making.
- - Designed and implemented ML models, improving prediction accuracy by 15%.
- - Streamlined the data preprocessing pipeline, reducing processing time by 20%.
- - Documented the model development lifecycle, creating comprehensive reports for research presentations.

Personal Projects

Intent Classification Using DeBERTa Transformers **GitHub Link**

Developed an intent classification system using the DeBERTa model to accurately identify user intents across multiple domains. Fine-tuned a pre-trained model on a multi-domain dataset to enhance performance and ensure precise understanding of user queries.

Results: Successfully deployed a real-time intent classification solution for conversational AI platforms, achieving 94% accuracy (30% improvement over baseline models) and enhancing customer query handling efficiency.

Technologies: Python, TensorFlow, Hugging Face Transformers, DeBERTa, NLP, Model Fine-Tuning

Sentiment Analysis Using BERT **GitHub Link**

Built a sentiment analysis system leveraging the BERT model to classify text into positive, negative, and neutral sentiments. Fine-tuned a pre-trained BERT model on sentiment-labeled datasets to improve performance and ensure high accuracy.

Results: Successfully deployed a sentiment analysis solution, achieving 93% accuracy (25% improvement over baseline models).

Technologies: Python, TensorFlow, Hugging Face Transformers, BERT, NLP, Model Fine-Tuning

Certificates

- Deep Learning Masterclass with TensorFlow (Udemy)
- MLOps with AWS Zero to Hero Course (Udemy)
- Introduction to Machine Learning (Duke University)
- Become an LLM Engineer in 8 weeks: Build and deploy 8 LLM apps, mastering Generative AI and key theoretical concepts(Udemy)

Education

Bachelor in Computer Science | Vishwakarma University, Pune, Maharashtra, 2025