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, YAML, Git, Github actions, dagshab ,mlflow
- **AWS Tools**: EC2 ,S3,bedrock,Athena,Sagemaker

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%.
- - Documented the model development lifecycle, creating comprehensive reports for research presentations.

Personal Projects

Network Security for Phishing Detection   **GitHub Link**

Built a phishing detection system using machine learning to enhance network security. Implemented end-to-end MLOps for scalable deployment and real-time monitoring.

Results: Achieved 94% accuracy, reducing false positives and improving phishing detection reliability.

Technologies: Python, scikit-learn, AWS S3, EC2, DagsHub, MLflow, Docker, Kubernetes, GitHub Actions, YAML, Flask, Pandas, NumPy

Blog Generation Using AWS Bedrock   **GitHub Link**

Developed an AI-powered blog generation system leveraging AWS Bedrock and LangChain for dynamic content creation. Integrated OpenAI models to generate high-quality articles based on user prompts.

Results: Successfully automated blog generation with customizable content, reducing writing time by over 70% while maintaining engaging and coherent narratives.

Technologies: Python, AWS Bedrock, AWS API Gateway, LangChain, Flask

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