Suyash Ambule

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Summary

Results-driven data professional with expertise in MLOps, Deep Learning, and statstics, focused on solving real-world Proficient in data preparation, analysis, and presenting actionable insights. Skilled in Python, SQL, statistical modeling, and deep learning architectures, with hands-on experience in building MLOps pipelines for model deployment and monitoring Passionate about promoting sustainable, inclusive business practices through data science and fostering professional growth within collaborative teams.

Technologies

- **Programming** : Python,Machine learning, Deep learning,Feature Extraction & Selection
- **Learning Architectures** : ANN, CNN, RNN, Auto-Encoders, Transformer models
- **Frameworks Tools** : Numpy, Pandas, Scikit-Learn , TensorFlow, Keras, NLTK, BeautifulSoup, Selenium , PyTorch
- **Data Visualizaton** : Matplotlib , Seaborn , Power BI
- **Databases** : MySQL, MongoDB
- **MLOps Tools** : Docker, AWS, YAML, Git, CI/CD, and Kubernetes for end-to-end model deployment and monitoring

Work Experience

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

- Conducted data analysis and applied machine learning techniques to explore research questions and uncover insights.
- Helped in the end-to-end process of building models, including data collection, cleaning, and preprocessing.
- Contributed to documenting the entire model development process, preparing results for presentations and publications.

Personal Projects

Intent Classification Using DeBERTa Transformers **Github Link**

Developed an intent classificaton 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 on user queries

Results : Successfully deployed a real-time intent classification solution for conversational AI platforms, achieving 94% (accuracy, a 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, a 25% improvement over

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)

Education

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