ANKITH R BHANDARY

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WORK EXPERIENCE

Agentic AI Intern, Prodigal AI Ind pvt 02/2025-Present

- Building Agentic AI applications

Data Analyst Intern, Bosch India Limited 12/2023 – 02/2024

- Model Building for Feed Pump-ML Project: Utilized Python (NumPy, pandas, seaborn, Matplotlib) for EDA and built a machine learning model with 98% accuracy to predict final-stage outcomes, optimizing the production process.
- Calibration VT Analysis: Performed data preprocessing and developed a Power BI dashboard to analyze and improve calibration efficiency in Fuel Injection Pump testing.

PROJECTS

1. Transformer-Based Neural Machine Translation Model

- Developed a Transformer from Scratch using PyTorch, implementing key components like multi-head attention, positional encoding, and feed-forward networks for sequence-to-sequence learning.
- Built an English-Kannada Translation Model, leveraging tokenization, attention mechanisms, and custom embedding layers to enhance machine translation accuracy.
- Optimized Model Training & Evaluation, utilizing PyTorch DataLoader, CrossEntropyLoss, and Adam optimizer for efficient training and real-time text generation.

2. Rice Blast Disease Detection System.

- Implemented Transfer Learning using DenseNet121 with TensorFlow and Keras, fine-tuning the model for rice plant disease classification.
- Preprocessed and Augmented Image Data, utilizing OpenCV and TensorFlow's ImageDataGenerator for improved model generalization.
- Deployed a Streamlit-Based Web App**,** integrating MLflow for model tracking and real-time plant disease detection.

3. AI-Powered Interview Screening System

- Developed an AI-powered Interview Screening System using Streamlit, Flask, and Google's Gemini API for real-time candidate assessment.
- Implemented NLP and Speech-to-Text Processing, leveraging LangChain and SpeechRecognition to analyze responses and generate adaptive interview questions.
- Built an Interactive Web Application**,** integrating Google Generative AI for question generation, response evaluation, and AI-driven interview automation.

4. Statistical & Machine Learning Analysis of Cricket Performance

- Conducted Statistical Analysis using Python with survival analysis and MANOVA to evaluate player performance across different cricket formats.
- Utilized Data Visualization Techniques, employing Matplotlib and Seaborn to generate graphs comparing batting averages, strike rates, and bowling performances.
- Implemented Machine Learning Models to analyze historical player data, identifying trends and key performance indicators in Indian cricket.

SKILLS SUMMARY

Languages: Python, SQL, R
Frameworks & Libraries: NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, MLOps,TensorFlow, Keras, PyTorch, LangChain, MLflow, FAISS, Pinecone, OpenCV
Databases & Cloud: MySQL, SQLite, PostgreSQL, MongoDBP
Machine Learning & NLP: Transfer Learning, Transformers, CNNs, RNNs, LSTMs, BERT, Text Preprocessing, Named Entity Recognition (NER), Sentiment Analysis
Web & AI Development: Streamlit, Flask, FastAPI, Selenium, BeautifulSoup, Google Generative AI (Gemini), SpeechRecognition, Requests
Visualization & BI Tools: Power BI, Tableau, Excel, Matplotlib, Seaborn
Soft Skills: Excellent Communication, Stakeholder Management, Report Building, People Management, Problem-Solving, Critical Thinking

EDUCATION

Jain University Bengaluru India
MSc Data Science 2022-2024
St Aloysius College Mangalore Mangalore, Karnataka
BSc-Economics statistics and mathematics 2019-2022

BLOGS

- Breaking Down 'Attention Is All You Need': A Deep Dive into Transformers

CERTIFICATES

- Cirtificate course in Data Science from Chools
- SQL for Data Science from Great Learning
- Excel for Intermediate level from Great Learning