Penukonda Yeshwanth

📞 +91-8790706549 ✉ yeshwanth2002@gmail.com in linkedin.com/in/yeshwanth-penukonda/

Summary

- Dynamic Data Scientist and AI/ML Engineer with hands-on experience in NLP, machine learning, and DevOps. Skilled in data preprocessing, visualization, feature engineering, statistical analysis, model training and AI-driven solutions like LLMs and GANs. Proficient in Python, Scikit-Learn, Pandas, Numpy, NLTK, TensorFlow, Kubernetes, and AWS, with a strong foundation in data structures, AI, Natural Language Processing and Machine learning.

Education

IIT Kharagpur   **Jul. 2019 – Jul 2024**
Industrial and Systems Engineering (M.Tech), Artificial Intelligence (Micro)   *CGPA: 8.65/10.00*

Experience

Axtria   **May 2023 – August 2023**
DevOps Engineer Intern   *Hyderabad, Telangana*
- Setup a Kubernetes pod for Jenkins, integrating with K8 cluster on AWS using remote connection and linux commands.
- Established Jenkins dashboard within Kubernetes pod using Docker and YAML for leveraging infrastructure flexibility.
- Migrated Jenkins pipelines and data to K8 setup, resulting in load balancing and 60% reduction in deployment time.

Cuenex   **February 2023 – March 2023**
Data Scientist Intern   *Remote*
- Employed Feature Engineering techniques on customer data, creating new attributes capturing customer demographics.
- Innovated an Android App, extracting user SMS data and pushing data to AWS S3 bucket post user's permission grant.
- Applied RE/NLP techniques on the SMS data, achieving a high 90% accuracy in determining user's creditworthiness.

Projects

Fake News Classification using NLP | *Python, Tensorflow, Transformers*   **June 2023**
- Preprocessed data consisting of real/fake news using Regular Expressions, CountVectorizer and TF-IDF Vectorizer.
- Employed ML techniques of Naive Bayes, SVM, Random Forest and trained the model on vectorized sentences of data.
- Explored GloVe Embeddings and Transformer(LLM) models like BERT and T5, improving accuracy from 76% to 83%.

Automated Stock Price Predictor Tool | *Python, Scikit-learn, Pandas, GitHub*   **October 2020**
- Collected, Preprocessed and Visualized stock price data of few renowed stocks using Yahoo finance API in Python.
- Utilized LSTM, ARIMA, and Linear Regression models with optimization, resulting in a low RMSE score of 5.81.
- Established daily model Training and Deployment through GitHub Actions and hosted the application on Streamlit.

Competitions / Hackathons

2nd Runner Up — ML Hackathon | *AI4ICPS, IIT Kharagpur*   **January 2023**
- Preprocessed and applied Feature Engineering on soil spectral reflectance data to predict six essential soil properties.
- Employed Linear Regression, XGBoost, Decision tree & Random Forest with hyperparameter tuning, RMSE score: 30.

2nd Runner Up — Datathon AI Hackathon | *Kshitj, IIT Kharagpur*   **January 2023**
- Developed Generative Adversarial Networks (GANs) for realistic and futuristic car image generation, indicative of advanced understanding in Generative AI and machine learning.

Technical Skills

Languages: Python, C, C++, JavaScript, MySQL
Libraries: Tensorflow, Pytorch, Keras, Scikit-learn, Pandas, Numpy, Seaborn, Matplotlib, RE, NLTK, SciPy, Streamlit
Developer Tools: VS Code, Amazon Web Services (AWS), Postman, Jupyter Notebook, Google Colaboratory
Technologies/Frameworks: Linux, Jenkins, Kubernetes, Docker, GitHub, Huggingface, MS Office, Tableau, PowerBI

Relevant Coursework

- Data Structures
- Machine Learning
- Deep Learning
- Artificial Intelligence
- Recommender Systems
- Operations Research
- Graph Machine Learning
- Probability and Statistics

Leadership / Positions of Responsibility

Spring Fest   **August 2020 – March 2021**
Core Organizing Team Member   *IIT Kharagpur*
- Co-ordinated sponsorship drive in Delhi, raising an amount of Rs. 4.85 lakh, a 21% YoY increase, for Spring Fest 2021.
- Conducted National Wide Prelims for different events in Chennai, witnessing a high audience of 800+ students.
- Spearheaded publicity campaigns in Telangana, by publicizing the fest in over 100 colleges, co-led a team of 5 ASMs.