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VINAY BATTHULA

Data Analyst

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Education

Masters of Technology, *National Institute of Technology Warangal* Jun 2025
B.Tech in Electrical Engineering, *Jawaharlal Nehru Technological University Hyderabad* Oct 2021

Skills

Programming	**Python, MySQL**
Packages and Frameworks	Sci-kit-learn, TensorFlow, Keras, PyTorch, NumPy, Pandas, Matplotlib, Seaborn, SciPy
Tools and Technology	**Simulink, MATLAB, GitHub, Anaconda Navigator, Jupyter Notebook, VS Code, LaTeX, Excel**
Soft Skills	Effective communication, Analytical problem-solving, Drive to learn
Mathematical Foundations	**Classical Machine Learning, Algebra, Probability, Applied Statistics**

Experience

Subject Matter Expert – Electrical Engineering & Advanced Mathematics Oct 2020 – Dec 2024
Chegg India (Remote) – Part-time
Subjects:Advanced Math, Electrical Engineering

- Collaborated with **Chegg Inc.**, a global ed-tech company, to solve over **1000+ quantitative problems** in advanced mathematics and electrical engineering.
- Applied concepts from **linear algebra, probability, statistics, and differential equations** to deliver accurate, step-by-step solutions under tight deadlines.
- Maintained a **>90% student satisfaction rating**, consistently delivering high-quality support in a fast-paced remote environment.

PROJECTS

Projects

Tesla Stock Price Prediction using LSTM [GitHub] *Feb 2025 – Mar 2025*

- *Technologies: Python, TensorFlow, scikit-learn, Pandas, NumPy, Matplotlib*
- Developed an LSTM-based deep learning model to forecast Tesla stock prices using 3,636 OHLC time-series records.
- Built a preprocessing pipeline using MinMaxScaler and windowed sequences to support sequence learning.
- Achieved 91% directional accuracy on unseen test data; validated with visual performance metrics.
- Visualized actual vs. predicted values to evaluate model performance and address overfitting.

Loan Approval Prediction using Machine Learning [GitHub] *Jan 2025 – Feb 2025*

- *Technologies: Python, scikit-learn, Pandas, NumPy, Seaborn, Matplotlib*
- Built a classification model to predict loan approvals using socio-financial features from 599 records.
- Performed data cleaning, imputation, label encoding, and feature scaling.
- Evaluated multiple models (Random Forest, SVM, KNN, Logistic Regression); best accuracy: 82%.
- Conducted EDA with pairplots and heatmaps to highlight key predictive features.

Heart Disease Prediction using Logistic Regression [GitHub] *Dec 2024 – Jan 2025*

- *Technologies: Python, scikit-learn, Pandas, NumPy, Matplotlib, Seaborn*
- Created a logistic regression model using UCI dataset with 4,241 patient records.
- Selected features via correlation analysis and statistical testing to reduce noise.
- Delivered 85% classification accuracy, validated with precision, recall, and F1-score.
- Shared insights using clear, non-technical visualizations to increase accessibility.

Achievements

- Achieved **5-star** badge in Python on HackerRank
- Achieved **5-star** badge in SQL on HackerRank
- Solved **90+ problems** on LeetCode

Certifications

- **Python (Basic)** — HackerRank Certified [View Certificate]
- **SQL (Intermediate)** — HackerRank Certified [View Certificate]