Batthula Vinay
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Summary

Aspiring Data Scientist with a strong foundation in machine learning, deep learning, and data analytics. Proficient in Python, SQL, and Power BI. Experience in AI-driven grid optimization and predictive analytics. Passionate about leveraging AI for impactful solutions. Strong expertise in Feature Engineering, Hyperparameter Tuning, and A/B Testing.

Education

MTech, Smart Electric Grid, National Institute of Technology Warangal	June 2025
BTech, Electrical and Electronics Engineering, Jawaharlal Nehru Technological University Hyderabad	2017 – 2021

Skills

Programming: Python, SQL
ML/DL Frameworks: Scikit-Learn, TensorFlow, Keras, PyTorch
Data Processing: NumPy, Pandas, SciPy, OpenCV
Data Visualization: Power BI, Matplotlib, Seaborn
Soft Skills: Collaboration, Leadership, Critical Thinking, Communication
Other Tools: MATLAB/Simulink, Probability, Statistics,Algebra

Projects

Predictive Maintenance for Industrial Equipment (Jan 2025)
GitHub Repository
- Designed an AI-driven predictive maintenance system, reducing equipment failures by 30%.
- Engineered feature selection techniques to improve model efficiency.
- Tuned for a 97.85% accuracy improvement.

Apple Stock Data Analysis and Machine Learning (Nov 2024)
GitHub Repository
- Conducted Exploratory Data Analysis (EDA) on 10+ years of stock data from Yahoo Finance.
- Developed interactive dashboards using Power BI and Matplotlib to visualize trends.

Tesla Stock Prices Prediction Using LSTM (Dec 2024)
GitHub Repository
- Developed an LSTM-based forecasting model to predict Tesla stock prices with 91% accuracy.
- Implemented automated hyperparameter tuning to improve time-series predictions.

Experience

Research Assistant, National Institute of Technology Warangal (July 2024 – Present)
- Developed AI models for renewable energy forecasting and smart grid optimization.
- Collaborated on research papers on AI applications in smart grids.

Certifications

Python for Data Science (Kaggle)
SQL for Data Science (Kaggle)

Hobbies

Football Analytics: Performance analysis using AI-driven metrics
eSports: Competitive gaming with strategic decision-making
Kaggle Competitions: Active participation in AI challenges