Valavala Dadi Naga Siva Sai Pavan

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Summary

Data Science and Machine Learning–focused undergraduate with strong expertise in Python, applied machine learning, and NLP, and hands-on experience building end-to-end, data-driven systems such as AI-powered resume screening and time-series forecasting models. Proficient in transforming unstructured data into actionable insights, developing deep learning models, and deploying interactive ML applications using Streamlit and Flask. Demonstrates a solid foundation in statistics, data analysis, and software engineering best practices, with a strong curiosity for scalable AI systems and real-world problem solving.

Education

Seshadri Rao Gudlavalleru Engineering College   Expected june 2026

Bachelor of Technology (B.Tech) in Information Technology (GPA:9.08)   *Gudlavalleru , Andhra pradesh*

- **Relevant Coursework:** Data Structures and Algorithms, Database Management Systems, Operating Systems, Computer Networks, Object-Oriented Programming (Java), Machine Learning, Artificial Intelligence, Software Engineering, Python Programming

Skills

Programming: Python, C, Java, JavaScript, Shell Scripting

Data Science & ML: Data Cleaning, EDA, Feature Engineering, Model Evaluation, Supervised & Unsupervised Learning, Scikit-learn, TensorFlow

NLP & Time Series: spaCy, Sentence-BERT, LSTM, Text Embeddings, Similarity Metrics

Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn

Web & Deployment: Streamlit, Flask, Django

Databases & OS: MySQL, Linux (CLI)

Tools: Git, GitHub, Jupyter Notebook, Google Colab, VS Code

Projects

AI-Powered Resume Screening System   *2025*

Developed an NLP-based resume–job matching system analyzing 1,000+ resumes and job descriptions using semantic embeddings and entity extraction to compute candidate–JD similarity scores and identify skill gaps. Deployed as an interactive web application.

Technologies: Python, Streamlit, spaCy, Sentence-BERT (SBERT), Pandas, NLP

Stock Price Prediction using LSTM   *2025*

Built a deep learning time-series forecasting model using LSTM networks on 5+ years of historical market data. Engineered technical indicators and evaluated performance using RMSE and MAE metrics, with real-time data integration and web deployment.

Technologies: Python, TensorFlow, LSTM, Pandas, NumPy, Scikit-learn, yFinance, Time Series, Deep Learning

Certificates & Other Activities

Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate: Fundamentals of AI/ML concepts, model lifecycle, data pipelines, and OCI AI services.

Oracle Data Platform 2025 Certified Foundations Associate: Core knowledge of data management, analytics, data ingestion, and cloud-based data services.

GeeksforGeeks: Certified in Data Science and Machine Learning with hands-on Python, data preprocessing, feature engineering, and applied ML projects.

Vice President, SAINT Club (College-Level): Led and organized multiple technical events, demonstrating leadership, coordination, and team management.