VARSHITH JULAKANTI

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Summary

Computer Science student and aspiring **AI/ML/Generative AI Engineer**, specializing in Artificial Intelligence and Machine Learning, with strong experience in building and deploying intelligent systems. Skilled in developing end-to-end AI solutions using Python, deep learning frameworks, and data-driven architectures, with a growing focus on scalable ML pipelines, cloud-native deployment, model optimization, and responsible AI practices.

Education

Vellore Institute Of Technology-AP   September 2023 – Expected May 2027
BTech in Computer Science — CGPA: 7.43   *Amaravati, Andhra Pradesh*

Experience

TATA Group | *GenAI-Powered Data Analytics*   **January 2026**
 − Performed exploratory data analysis and risk profiling to identify high-risk customer segments
 − Designed AI-assisted collection strategies leveraging GenAI concepts
 − Built analytical workflows supporting business intelligence and predictive modeling
 − Applied ethical AI principles with focus on explainability

JPMorgan Chase & Co. | *Software Engineering*   **January 2025**
 − Developed backend logic and RESTful APIs for financial data processing
 − Implemented Kafka-based event streaming for real-time data integration
 − Applied enterprise-grade software engineering best practices

Technical Skills

Programming & Scripting: Python, SQL, Java (working knowledge), C/C++

AI / Machine Learning: Machine Learning, Deep Learning, Computer Vision, Transfer Learning, Model Evaluation

Generative AI: Large Language Models (LLMs), Prompt Engineering, Transformer-based Models, RAG (Retrieval-Augmented Generation), Hugging Face, OpenAI APIs

Frameworks & Libraries: TensorFlow, Keras, PyTorch, Scikit-learn, OpenCV, NumPy, Pandas, Matplotlib, Seaborn

MLOps & Deployment: Flask, FastAPI, Streamlit, Docker, CI/CD Pipelines, Model Deployment

Cloud & Platforms: AWS, Google Cloud Platform (GCP), Google Colab, Jupyter Notebook

Databases & Data Handling: MySQL, PostgreSQL, MongoDB

Development & Workflow Tools: Git, GitHub, Linux/Unix (CLI), VS Code, Agile/Scrum

Projects

Personal Portfolio Website | [**Live Demo**](#)   **2025**

- Designed and developed a modern, responsive personal portfolio to showcase projects, skills, and technical journey.
- Built using **React, TypeScript, Vite, and Tailwind CSS** with smooth animations and interactive UI components.
- Implemented structured project sections, storytelling-based navigation, and live demo links for improved user engagement.
- Deployed on **Vercel** with optimized production builds and CI-ready configuration.

AI-Powered Drug Discovery Platform (DTI Prediction) | [**Live Demo**](#)   **2025**

- Developed an end-to-end **Drug–Target Interaction (DTI)** prediction platform to identify potential drug candidates from protein sequence data.
- Implemented a **CNN-based deep learning model** to learn interaction patterns between drugs and target proteins.
- Designed a **React + TypeScript + Tailwind CSS** frontend to display prediction scores, confidence metrics, and comparative analysis.
- Added visualization components for model architecture and prediction interpretation to improve explainability.

StockAI − AI-Powered Stock Price Prediction | [**Live Demo**](#)   **2024**

- Built an AI-powered stock price prediction web application using historical market data.
- Implemented a machine learning pipeline with **Linear Regression** for short-term time-series forecasting.

- Designed interactive dashboards to visualize actual vs predicted prices, trends, and forecast windows.
- Structured the project to support future enhancements such as LSTM, ARIMA, and sentiment analysis.

AI-Based Skin Disease Detection System | [Live Demo]   **2025**

- Developed an AI-powered dermatology assistant that analyzes skin images and predicts possible skin conditions.
- Trained and integrated a **TensorFlow-based deep learning model** for image-based disease classification.
- Built an interactive frontend using **HTML, CSS, and JavaScript**, connected to a **Flask-based ML backend**.
- Implemented end-to-end prediction workflows including image upload, inference, and result visualization.

Certifications

AWS Academy Graduate – Cloud Architecting | **Amazon Web Services** [Certificate]

AWS Academy Graduate – Cloud Foundations | **Amazon Web Services** [Certificate]

Oracle Cloud Infrastructure 2025 Certified Generative AI Professional | **Oracle** [Certificate]

Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate | **Oracle** [Certificate]

Software Engineering Job Simulation | **JPMorgan Chase & Co.** [Certificate]

GenAI-Powered Data Analytics Job Simulation | **Tata Consultancy Services** [Certificate]

Soft Skills

- Problem-Solving
- Collaboration and Teamwork
- Communication
- Adaptability
- Time Management
- Logical Reasoning
- Leadership
- Technical Documentation
- Project Management