

SASHANK VARMA

Mummidivaram, AP

+91 9493271558 sashankvarma920@gmail.com [linkedin.com/Sashank](https://www.linkedin.com/Sashank) github.com/Sashank [Coding profile](#)

Education

Aditya College of Engineering and Technology, JNTUK

2022 – 2026

B.Tech in Computer Science Engineering (Artificial Intelligence and Machine Learning) 8.37 CGPA

Surampalem, AP

Experience

Aquarlabs

Oct 2024 – Jan 2025

Full-Stack Developer Intern

Visakhapatnam, AP

- Developed and deployed RESTful APIs to support an AI-based PDF conversion tool, improving processing efficiency by 40%.
- Engineered secure backend logic with JWT authentication middleware to protect endpoints and enhance user privacy.
- Streamlined route management for dynamic file conversion services, reducing response latency by 25%.
- Collaborated across front-end and back-end stacks, strengthening full-stack proficiency in real-time development environments.

Projects

Smart Hire AI / AI, Machine Learning, FastAPI, React.js, NLP / Live

January - March 2025

- Improved job-candidate match accuracy by 80% by building an AI-powered resume parser using NLP and FastAPI.
- Reduced recruiter workload by automating interview evaluation and email notifications using a FastAPI-based scoring module.
- Accelerated hiring decisions by integrating React-based dashboards for both recruiters and applicants.

FoodLink / MERN Stack, JWT Authentication / Live

September - November 2024

- Enabled redistribution of surplus food across cities, reducing food wastage by 60% through a MERN-based donation system.
- Ensured secure access to donation services by implementing JWT-based authentication and role-based routing.
- Improved food delivery accuracy by integrating location-aware forms that matched donors with nearby recipients.

GrainPalette / Transfer Learning, MobileNet, Flask, Deep Learning

May - June 2025

- Reached 93% classification accuracy by fine-tuning a MobileNet CNN using transfer learning on rice grain datasets.
- Delivered real-time predictions to end-users by deploying the trained model into a Flask-based web interface.
- Reduced model training time by 50% by leveraging data augmentation and ImageDataGenerator pipelines in Keras.

Personal LLM Chatbot | Retrieval-Augmented Generation (RAG), LangChain, ChromaDB, Streamlit | August 2025

- Built a personalized AI chatbot that answers questions about my background by retrieving relevant data from my resume, projects, and achievements using RAG architecture.
- Improved response accuracy and reduced hallucinations by grounding LLM outputs on vector-embedded document chunks stored in ChromaDB.
- Enhanced conversational experience with context retention and citation display, enabling follow-up questions with 100% relevant answers.

Technical Skills

Programming Languages: Python, Java, JavaScript, c, HTML, CSS, MYSQL

Technical Skills: Machine Learning, Data Analysis, Large Language Models, Operating Systems, Data Structures and Algorithms, Object Oriented Programming, Version Control, Website Development, Database Management System.

Developer Tools: VS Code, Git, GitHub, Docker, Postman, Swagger, AWS, Langchain, FineTuning, VectorSearch

Frameworks & Libraries: React.js, Express.js, Node.js, FastAPI, RAG Pipelines, Generative AI

Certifications

Generative AI - LinkedIn and Microsoft 

Postman API 

MongoDB - GFG 

Technical Achievements

- * Achieved 5-star ratings in Problem Solving, Python, and Java on HackerRank, demonstrating strong programming and analytical skills.
- * Maintained a LeetCode rating of 1413 with consistent performance in algorithmic contests, solving over 250+ problems.
- * Earned a CodeChef rating of 1200 and regularly participated in rated challenges, reinforcing knowledge of DSA and competitive problem-solving.