

Juthuka Siva Shankar

[LinkedIn](#) | Phone: +91 9347521442 | Email: sivashankarjuthuka8@gmail.com | GitHub – [SivaShankar-Juthuka](#) | [Portfolio](#)

EDUCATION

Aditya College of Engineering and Technology, Surampalem

2020 - 2024

Bachelor of Technology in Computer Science and Engineering

CGPA: 7.66

WORK EXPERIENCE

Trainee Software Engineer – Innocito

May 2025 – Present

- Engineered and deployed a scalable FastAPI-based client and server system for a Model Context Protocol (MCP) project. Improved system adaptability and cost-efficiency by replacing a proprietary Claude API with an open-source Mistral LLM and integrating local LLMs. Demonstrated expertise in building robust and scalable AI applications by implementing a multi-server setup and deploying the solution.

Ruby on Rails Intern – Auzmor

May 2024 – July 2024

- Developed foundational skills in Ruby, including OOP, data structures, and algorithms, reinforced through multiple assessments. Gained hands-on experience with Ruby on Rails, building applications with a focus on models, database design, authentication, and authorization. Developed API-only applications and completed a capstone project on Library Management System, demonstrating proficiency across the entire application development lifecycle.

AI | ML Intern – Technical Hub

July 2022 – Nov 2022 | May 2023 – July 2023

- Completed an internship at The Technical Hub, gaining hands-on AI/ML experience, contributing to projects, and showcasing responsibility. Earned Microsoft Azure AI Fundamentals certification; developed and deployed ML models with a 90% accuracy boost, and mentored new interns to overcome project challenges.

PROGRAMMING ACHIEVEMENTS

- Won the **Google Cloud & AMD Solving for India Hackathon** by **GeeksforGeeks** at Institute level and advanced to the Regional Rounds. [Link](#)
- Certified in **Azure AI Fundamentals** by **Microsoft**. [Link](#)
- Successfully Solved **450+** problems in **LeetCode** and **Geeks for Geeks**. [LeetCode Profile](#), [GeeksforGeeks profile](#).
- Achieved a **5 Star Badges** in Python, C++ and Problem solving in HackerRank. [Link](#)

TECHNICAL PROJECTS

AI Voice Assistant for Customer Service – [GitHub Link](#) | Python, Flask, OpenAI, Speech Recognition, TTS, STT

- Built an AI-powered voice assistant using Flask, ElevenLabs for text-to-speech. Integrated OpenAI's Whisper Speech-to-Text and Google Generative AI for intelligent voice interactions. Added multilingual support with deep-translate.

Library Management System – [GitHub Link](#) | Ruby on Rails, SQL

- Designed and developed a Library Management System with role-based access control (Admin, Librarian, Member), implementing CRUD operations for libraries, books, and user roles. Ensured efficient management of borrowing, requests, and fines, demonstrating full-stack development proficiency in backend database management, API development, and frontend UI design.

Optimization Of NPK Analysis Using Deep Learning – [GitHub Link](#) | Python, ML, DL, Streamlit

- Led a team project at Aditya College of Engineering & Technology, developing a web app using Streamlit to optimize NPK analysis with deep learning models like Random Forest and Simple RNN. Collaborated on full-stack development, data preprocessing, and UI design to predict optimal crop recommendations, showcasing leadership and technical skills in agricultural optimization.

Stock Price Prediction using LSTM – [GitHub Link](#) | Python, Deep Learning, Web Design, Cloud

- Developed and deployed an LSTM model for stock price prediction using opening, highest, lowest prices, and volume as features. Addressed dataset challenges to enhance model accuracy and successfully deployed the model, aiding informed decision-making in financial analysis.

SKILLS

Programming Languages : C, C++, Python, Ruby

Technical Knowledge : Machine Learning, Deep Learning (Beginner), Gen AI, Agentic AI, Ruby on Rails, Data Structures and Algorithms.

Databases : MySQL, NoSQL, Vector-DB.

Tools : MS-Excel, Postman.