Akshay Kumar Rumandla

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Summary

Final-year Computer Science student specializing in full-stack development and problem-solving. Skilled in developing and maintaining web applications using React, NodeJS, and MongoDB. Eager to leverage a strong foundation in Data Structures and Algorithms to contribute to building efficient and impactful software solutions.

Education

ACE Engineering College, Hyderabad 2022 – 2026
B.Tech in Computer Science and Engineering (AI & ML)
- CGPA: 8.0/10.0

Jawahar Navodaya Vidyalaya, Siddipet, CBSE Class XII 2022
- Percentage: 81.6%

Jawahar Navodaya Vidyalaya, Siddipet, CBSE Class X 2020
- Percentage: 80.0%

Skills

Languages: Java, C/C++, Python, JavaScript
Frontend: React, HTML, CSS, Tailwind CSS
Backend & Databases: NodeJS, ExpressJS, REST APIs, MongoDB, MySQL
Core Concepts: Data Structures Algorithms, Object-Oriented Design (OOP), Operating Systems, Problem Solving
Developer Tools: Git, VS Code, Google Colab

Projects

coneckt – Full-Stack Internal Communication App
- **Technologies:** React.js, Node.js, Express.js, MySQL, Socket.io, REST API
- Engineered a full-stack, real-time messaging application from scratch to facilitate internal corporate communication, similar in concept to Slack or Microsoft Lync.
- Designed and developed a full-stack web application using React.js, Node.js, Express, and Socket.io, integrating a MySQL database for real-time messaging, user management, and seamless user experience.

Multi-Modal Visual Question Answering (VQA) System
- **Technologies:** Python, PyTorch, Transformers, React, OpenCV
- Engineered a full-stack application using React for the frontend and a Python backend to answer natural language queries about user-uploaded images.
- Fine-tuned a ViLT (Vision-and-Language Transformer) model on the GQA dataset and implemented image augmentation to improve robustness and deliver more accurate interpretations.

Stock Price Prediction Recommendation System
- **Technologies:** Python, Scikit-learn, Pandas, yfinance
- Developed a predictive system that ingests historical market data via the yfinance library and uses a Linear Regression model to forecast price movements.
- Designed and deployed a user-friendly web interface that translates complex forecasts into actionable "Buy/Sell/Hold" recommendations, simplifying investment decisions.

Achievements Certifications

- Secured 2nd Runner-Up in the AWS Generative AI Ideathon for an innovative application of generative AI.
- Solved 200+ Data Structures and Algorithms problems on LeetCode, strengthening analytical and coding proficiency.
- Completed *MePro Level 10 – English Proficiency Program* by Pearson, demonstrating advanced English communication and comprehension skills.