ANGARA BALAJI

◇ Andhra pradesh, India

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EDUCATION

Vellore Institute of Technology,AP 2022-2026
Bachelors of Technology in Computer Science and Engineering Current CGPA : 8.8
Relevant Coursework: Computer Networks, Data Structures and Algorithms, Database Management System.
Narayana Junior College,AP 2021 - 2022
Class 12 Percentage - 96.2

SKILLS

Programming Languages:	Java, Python, JavaScript , Typescript
Frontend Technologies:	NextJS, ReactJS, HTML, CSS, Tailwind CSS
Backend Technologies:	NodeJS, ExpressJS
Database :	SQL (Oracle), postgreSQL, MongoDB
Other Tools/Technologies :	Git, Postman API
Familiar with :	AWS(EC2, S3), Docker, web3.js

PROJECTS

Freelance Project

- Developed an API to operationalize a machine learning model,**improving data processing speed by 40%**.
- Focused on creating modular, reusable code to facilitate integration with other client systems and applications.

RoadRadar [Github] [Website]

Techstack used:Typescript , ReactJS, Tailwind css, PostgreSQL , Prisma ORM, CloudFlare worker(hono library)

- Implemented a serverless architecture using Cloudflare Workers and the Hono library, which **reduces infrastructure costs by 50%** compared to traditional server setups.
- Designed and implemented database schemas using PostgreSQL, applying **relational database concepts for efficient data management.**
- Integrated Arduino IDE for hardware programming, establishing real-time communication between IoT sensors and the backend system with a latency of **less than 200ms**.
- Developed an intuitive frontend interface using ReactJS and Tailwind CSS, ensuring a smooth user experience.

PneumoWatch [Github] [Website]

Techstack used: Python, ReactJS , Flask , TensorFlow

- Optimized integration of the TensorFlow Lite model, **Achieved 20% faster inference** compared to the standard TensorFlow model.
- Successfully integrated the TensorFlow Lite model, achieving a **98% accuracy rate** in pneumonia detection, which significantly improved diagnostic capabilities for healthcare professionals.
- Collaborated with a cross-functional team of 3 members, leading the machine learning model development and integration efforts.

ACHIEVEMENTS

- Achieved **15th position out of 150 teams** in the Mercer Mettl Limitless Hackathon by designing a novel solution that addressed real-world problems effectively.
- Ranked in the **top 3% out of 170,000** participants in a highly competitive state-level engineering entrance exam