






DEVI SRI CHARAN VALUPADASU

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EDUCATION

IIIT Delhi

Jan. 2021 - Jun. 2024

B.Tech Computer Science and Design

COURSEWORK

Courses: DSA, DBMS, Advanced Programming, Analysis and Design of Algorithms, CN, OS, NLP, Usable Security and Privacy, IR, Discrete Mathematics, ML and RL in Finance Specialization, Affective Computing

EXPERIENCE

- Software Engineer** | Lumiq | MERN Stack, NestJS, TailwindCSS, Python, FastAPI, Java, AWS, Linux Jun. 2024 – Present
- Developed a deduplication engine for processing insurance data, reducing duplicate records by 40% and improving data accuracy, leading to enhanced operational efficiency for multiple insurance company clients.
 - Built an internal project management and resource allocation platform, increasing team productivity by 30% by streamlining project tracking and optimizing resource utilization.
 - Built a stateful application using popular CMS tools for dynamic content management, with a custom frontend, API validations, and PDF export. Deployed via Docker, improving content workflows by 35%.
 - Developed an AI-powered virtual sales agent with Next.js, using SSR and SSG for optimal performance. Enabled real-time insights and automated demos, increasing client product engagement by 25%.
 - Engineered a data correction script for a major insurance client, removing over 350,000 duplicate financial exposure records, significantly enhancing data reliability and financial reporting accuracy.
- Product Engineer** | Stealth Startup | React Native, Python, FastAPI, Figma, Competitive Analysis, Prototyping Feb. 2025 – May. 2025
- Collaborated closely with the co-founder as part of a 2-member founding team, contributing to all stages of early product development in a high-ownership environment.
 - Conducted in-depth user research, defined and refined the problem statement, and performed competitive landscape analysis to identify product gaps and differentiation opportunities.
 - Designed scalable information architecture and iterated on low-, mid-, and high-fidelity prototypes using Figma.
 - Developed the MVP frontend using React Native and backend using Python and FastAPI, establishing a scalable foundation for future product features and enabling internal testing and investor demos.

PROJECTS

- ArtiSight** | React, TailwindCSS, Python, Flask, LLMs Apr. 2024
- Spearheaded the end-to-end development of the platform, integrating a responsive frontend with a python based backend for seamless user interaction.
 - Implemented LLM-based analysis pipelines to automatically evaluate photo submissions and generate constructive critiques, reducing manual review efforts by 70%.
 - Designed and built a Resource Retrieval System that maps critiques to relevant educational materials, resulting in a 50% increase in user engagement and satisfaction.
- Wasto** | Python, Tensorflow, Pytorch, MobileNetV3Large, RoBERTa base, Gradio, Arduino, Bootstrap Oct. 2022
- Developed an image classification model for waste classification using transfer learning on MobileNetV3Large, fine-tuned to achieve over 88% accuracy on a custom dataset.
 - Integrated model with a Python-based backend and leveraged HuggingFace Gradio for an interactive web application, resulting in a 50% increase in user interaction.
 - Integrated the model with an Arduino-based smart bin, automating waste sorting and increasing efficiency by 40%.

SKILLS

Programming Languages: Python, JavaScript, TypeScript, Java, SQL, HTML, CSS
Frameworks & Libraries: React, React Native, Redux, Next.js, Node.js, Express.js, NestJS, FastAPI, Flask, CMS (Strapi, Payload)
UI/UX & Design: Tailwind CSS, Bootstrap, Figma, Gradio
Databases & Backend: MongoDB, PostgreSQL, REST APIs, Docker, AWS (EC2, S3, Lambda), Git
AI/ML & Data Science: LangChain, LangGraph, TensorFlow, PyTorch, Numpy, Pandas, Matplotlib, Seaborn, spaCy, HuggingFace
Tools & Platforms: Linux, Arduino, GitHub, Postman, VSCode

ACHIEVEMENTS

- Won 1st Place** | SMAI Hackathon by Micron India Oct. 2022
Scored 99.2303444 percentile | JEE MAINS Jan. 2020

CERTIFICATIONS

- AWS Partner: Accreditation (Technical)** | LUMIQ June. 2024
AWS Certification | Scaler May. 2024