

DEVI SRI CHARAN VALUPADASU

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EDUCATION

IIIT Delhi

B.Tech in Computer Science and Design

Jan. 2021 - Jun. 2024

COURSEWORK

Courses: DSA, DBMS, Advanced Programming, Analysis and Design of Algorithms, CN, OS, NLP, Usable Security and Privacy, IR, Discrete Mathematics, Machine Learning and Reinforcement Learning in Finance Specialisation, Affective Computing

EXPERIENCE

Software Engineer | Lumiq

Jun. 2024 – Present

- Built a scalable **internal project management and resource allocation platform** using **React**, **NestJS**, and **PostgreSQL**, boosting team productivity by **30%** through streamlined tracking and efficient resource utilization.
- Designed and implemented a high-performance **deduplication engine** using **Python** and **AWS ETL pipelines**, reducing duplicate **insurance data records** by **40%** and improving data quality for multiple enterprise clients.
- Created an **AI-powered virtual sales agent** using **LangChain**, **LangGraph**, and **LLMs**, with a **Next.js** frontend using **SSR** and **SSG**; enabled real-time demos, increasing client engagement by **25%**.
- Wrote a robust **Bash data correction script** that removed over **350,000** duplicate **financial exposure records** for a key insurance client, significantly enhancing **data reliability** and financial reporting accuracy.

Product Engineer | Stealth Startup (Social Media Platform)

Feb. 2024 – May. 2024

- Worked directly with the co-founder in a **2-member founding team**, taking full ownership across all phases of early-stage **product development** in a fast-paced startup environment.
- Led **user research efforts** to validate core assumptions, shaped the **problem statement**, and performed detailed **competitive analysis** to identify key differentiators in the social media space.
- Designed scalable **information architecture** and built iterative **low-, mid-, and high-fidelity prototypes** using **Figma** to refine user flows and engagement strategies.
- Engineered the **MVP frontend** using **React Native** and built the **backend APIs** with **Python (FastAPI)**, laying the technical foundation for rapid iteration, internal testing, and investor demonstrations.

PROJECTS

ArtiSight | React, TailwindCSS, Python, Flask, LLMs

Apr. 2024

- Led the end-to-end development** of an AI-powered critique platform, integrating a responsive **React + TailwindCSS frontend** with a scalable **Flask-based Python backend** to deliver seamless user experience.
- Developed and deployed **LLM-based evaluation pipelines** using prompt engineering and fine-tuned models to analyze photo submissions and generate personalized, high-quality feedback, reducing manual review workload by **70%**.
- Designed and implemented an **Information Retrieval (IR) system** that maps LLM-generated critiques to curated educational resources using keyword extraction and vector similarity, boosting user engagement and satisfaction by **50%**.

Wasto | Python, Tensorflow, Pytorch, MobileNetV3Large, RoBERTa base, Gradio, Arduino, Bootstrap

Oct. 2022

- Developed a custom **image classification model** for automated waste categorization using **transfer learning on MobileNetV3Large**; fine-tuned the model on a labeled dataset, achieving over **88% accuracy**.
- Built a Python-based backend and deployed the model using **Gradio**, enabling a user-friendly web interface for real-time predictions and increasing user interaction by **50%**.
- Integrated the image classification pipeline with an **Arduino-powered smart bin**, automating the sorting process and improving waste segregation efficiency by **40%**.

SKILLS

Programming Languages: Python, JavaScript, TypeScript, Java, SQL, HTML, CSS

Frameworks & Libraries: React, React Native, Next.js, Redux, Node.js, Express.js, NestJS, FastAPI, Flask, Spring Boot

UI/UX & Prototyping: Tailwind CSS, Bootstrap, Figma, Gradio, Streamlit

Databases & DevOps: MongoDB, MySQL, PostgreSQL, Vespa, REST APIs, Docker, AWS (EC2, S3, Lambda, Athena, Glue)

AI/ML & Data Science: LangChain, LangGraph, TensorFlow, PyTorch, Hugging Face, spaCy, Numpy, Pandas, Matplotlib, Seaborn

Tools & Platforms: Git, GitHub, VSCode, Cursor, Postman, Linux, CMS (Strapi, Payload)

ACHIEVEMENTS

Won 1st Place | SMAI Hackathon by Micron India

Oct. 2022

Scored 99.2303444 percentile | JEE MAINS

Jan. 2020

CERTIFICATIONS

AWS Certified Data Engineer - Associate (Partner) | Lumiq

Oct. 2024

AWS Certification | Scaler

May. 2024