

Ajay Suresh

B.Tech/AI&DS

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Location: Chennai, IN

OBJECTIVE

Skilled Machine Learning Engineer and Full-Stack Developer with expertise in AI, Generative Models, and Web Development, committed to building innovative and scalable solutions. Proven track record in system design, state management, and API development, eager to contribute to technological advancements in a forward-thinking organization.

SKILLS SUMMARY

- **Languages:** Python, JavaScript, Java, SQL, OOP, HTML, Cascading Style Sheets (CSS)
- **Frameworks & Libraries:** NLTK, Flask, Express, React.js, Node, PyTorch, LLMs, TailwindCSS, Redux
- **Databases:** MongoDB, MongoDB Atlas
- **Tools:** GIT, Tensorboard, Postman, Github, Figma, Firebase, RoboFlow
- **Expertise:** State Management, Data Structure and Algorithms, System Design, RESTful API Development, Microservices
- **Soft Skills:** Event Management, Writing, Public Speaking, Planning, Communication

Experience

- **Freelancer** Remote
Designer and Developer March 2023 - Dec 2023
 - **Portfolios for Business:** Designed and Developed web apps for 3 and more business to promote their online presence.
 - **UI Design for Personal Portfolios:** Designed and Developed UI/UX for personal portfolios using Figma and ReactJS v18.
 - **Alokah:** Built a Full Stack Agri Based E-Commerce and Services for Alokah with secured Authentication, Admin Dashboard and Payment Gateways with React, Redux State Management.
- **Optisol Business Solutions** On Site
Intern March 2024 - September 2024
 - **Carbon Soot Detection:** Developing a Live Video processing system to detect and alert presence of waste in a conveyor belt with more than 90% accuracy
 - **REST API For Production:** Built FastAPI for Image Classification and Deployed it in AWS Production Server.
 - **Custom Scanner:** Currently Working on a Application to perform various object detection tasks in Android Using MLKit
- **ULLAS Trust** On-Site
Mentor (Volunteer, NGO) June 2020 - Present
 - **Touch the Soil:** - Visited around 50 rural area schools and conducted career guidance for over 5000 + Young Minds
Lead a team and Managed UEE Examinations on year 2023.
 - **Overall Lead of Annual Workshop:** - Lead a Team of 50+ fellow volunteers and Managed the Annual Can Do Workshop 2024

PROJECTS

- **BiLLder - Full Stack GenAI based web app for Invoice generation (NLP, Large Language Models, API, CRUD, NoSQL):** Generative AI Oriented React Web App to enable small businessness to have their own billing system with notification and real time analysis using GenAI. Tech: Python, ReactJS, Gemini, MongoDB, Redux, JavaScript (January '24)
- **FarmHUB -Full Stack Multimodal web app (NLP, Large Language Models, API, Multimedia Processing):** Generative AI Oriented Web App to improve and educate users about farming techniques. Tech: Python, Flask, Llama2, PyTorch, JavaScript (January '24)
- **Automated News Summarizer app using Facebook's BERT (Web Scraping, API, NLP, System Design):** Random or Specific genre News were scraped and properly summarized for user reading it enabling the user's to read more news. Tech: Python, JavaScript, HuggingFace, NLTK (Jan '23)
- **Gesture and Action based System Control using Deep Learning (Deep Learning, Computer Vision, Neural Networks, Mediapipe)in progress:** Inspired from Apple's Vision pro hand control feature implemented to Systems using Single Web Camera. Tech: Python, JavaScript (Dec '24)

HONORS AND AWARDS

- Winner of Idea Pitching in Inter-College Event - Oct, 2023
- Runner Up in Intralevel coding competition - July, 2023
- Second Runner's Up in Debugging at SIMATS - Nov, 2023
- Finalists at PEC Hacks - January, 2024
- Finalists at Techathon at SIMATS - Nov, 2023

EDUCATION

- **Panimalar Institute of Technology** Tamilnadu, India
Bachelor of Technology - Artificial Intelligence and Data Science; GPA: 8.28 Oct 2020 - June 2024