Anjelica

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Education

Plaksha University, B.Tech in CS & AI (CGPA: 8.3)   2023 - 2027

Experience

Software Intern, Agmitra Technologies – Prof. Shashank Tamaskar   May 2025 – Jun 2025

- Developed optimization algorithms for the DigiSugar polarimeter project, improving sweep efficiency, reducing computation time, and testing new approaches such as k-means clustering, gradient methods, and discrete step algorithms.
- Worked and deployed the website on Cloudflare and Vercel, integrated it with MongoDB, and connected it to the Raspberry Pi backend for real-time device data retrieval.

ML Intern, Dixon IoT Lab, Plaksha University   Jun 2024 – Jul 2024

- Fine-tuned a YOLOv8 model for auto-labelling license plates from traffic dataset using Autodistill, GroundingDINO. Worked on traffic dataset to extract video frames using MoviePy, FFmpeg.
- Deployed a MobileNetV2 model with TensorFlow for object detection from traffic videos.

Projects

LangLantern, FreeCodeCamp Summer Hackathon   July 2025

- Worked in a team to build a crowd sourced language learning application for uncommon languages/dialects during a month-long hackathon.
- Implemented the Discussion Forum feature, including API endpoints, database schema with Prisma ORM, seeding data functionality, and the basic UI in React with TypeScript

Emotions In Our Sarcasm   Feb 2025 - May 2025

- Multimodal emotion classification in Code-mixed Hinglish text and video data to detect four emotions from sarcastic utterances.
- Feature extraction using FastText, ResNet50. Built a custom neural network with attention mechanism and a Random forest classifier with F1 scores of 0.51 and 0.53 respectively.

Bell Jar   May 2024

- Developed a real-time chat server application in Node.js using the ws, WebSocket library and the react-use-websockethook to enable instant messaging across browsers and devices.
- Built the frontend in React.js with TailwindCSS, where users get assigned unique names and avatars, and integrated media sharing by converting files to base64 using the FileReader API, adding preview thumbnails and a download option for shared media.

Positions of Responsibility

Member at LEAP AI Club, Plaksha University   Jan 2025 - Present

- Worked on the Foundation Day Project - a game where user enters emojis and the AI guesses the movie. Built the backend, using FastAPI and MongoDB in Python.

Technical Skills

Python, C, C++, PostgreSQL, HTML, CSS, JavaScript, TailwindCSS, React.js, TypeScript, Node.js, Express.js, FastAPI, MongoDB, Prisma, Astro

Open Source Constributions

JekyllEx, Android app for managing Jekyll blogs

- Contributed a Theme Setting feature enabling users to change the appearance of the in-app code-editor (based on Prism.js) and added new editor themes