

# 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 Dec 2021 – Mar 2022

- 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-websocket hook 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 Contributions

**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