



Ananya Kedlaya

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EXPERIENCE

CMTI (Central Manufacturing Technology Institute)

November 2023 - Present

Project Associate

- **FullStack Web Developer** in **Vue.js** and **FastAPI**. **Developed** a module for remote monitoring and maintenance of 6 machines with **real-time data** and sent alerts by email. **Migrated Database** from **MongoDB** to **PostgreSQL**.
- **Python Application** with **image processing** and **GUI development** for Thermal Camera using its SDK with **PyQt**
- **Documented responsive webpages** and applied coding practices after **requirement analysis**.
- **Wireframe** and **prototype** with **Figma**. Applied **UI** principles. Arranged content with **user experience** in mind.
- **Managing a team** of **2 interns**. Structured a **System Design and Architecture** to be followed.

PROJECTS

1. Remote machine health monitoring and maintenance system

- Analysed a system design to use **Websockets** for real-time data, **Frontend JavaScript Framework Vue.js**, **state management** with **Vue Router** and **Pinia store** and **Backend Python FastAPI** to create **RESTful APIs**, **tested** on **SwaggerUI** and **Postman** providing a **50% reduction** of excess labour in the manufacturing sector. Enabled **SMTP** email notification. Downloadable CSV files from Graph data
- Data was migrated from **MongoDB** into **PostgreSQL**, and the regular data population was scheduled with **APScheduler**. Querying using **ORM, SQLAlchemy**
- Used **Figma** to design a **user flow** and dashboard design, **light UI** and a focus on **User Experience (UX)**

2. Lip-to-speech synthesis model

- Developed a **Convolution Neural Network (CNN)** based **Machine Learning (ML)** model to convert lip movements into speech/ textual output using **Python**

3. Handwritten numbers classification using TensorFlow - [GitHub Repository](#)

- Used **TensorFlow** to build a **Convolution Neural Network (CNN)** to classify images of handwritten numbers. **ReLU** and **Softmax** as activation functions. Documented on Github

4. Art App - Ongoing personal project - [Figma Design File](#)

- Retrieve art and artist information in all museums. Book workshops, and check art stores in the city.
- Conducted **user research**, and performed **market analysis** to get **user map journey**.

EDUCATION

Acharya Institute of Technology - 7.82 cgpa

August 2019- June 2023

Bachelor of Engineering - Computer Science and Engineering

SKILLS

- Frontend Development - HTML/CSS, Tailwind CSS, Javascript, React.js, Vue.js, JQuery
- Backend Development - Python FastAPI framework- CORS, JWT, SQLAlchemy, SQL
- Database - PostgreSQL, MongoDB
- Machine Learning - Python, Neural Networks, CNN
- Image Processing- OpenCV, PIL
- Tools - Docker, Github, Git, Figma, WIX
- Python Application Development from SDK
- Python PyQt for GUI development

ACHIEVEMENTS

- Secured 1st place in Final Year Project Presentation in the Computer Science and Engineering Department
- Headed the Literary Club in college. Conducted debates and poetry sessions.
- Volunteered in Government School Beautification Projects to uplift the learning spaces of rural schools