

# Ananya Kedlaya

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A passion to build innovative digital experiences. Blending hardware, programming and creativity into optimised and efficient workflows.

## EDUCATION

### University College London

September 2026

Master of Science - Connected Environments

IoT, Sensors, Data Visualisation, Design Thinking, HCI, Prototyping

### Acharya Institute of Technology - 3.3 GPA

August 2019 - June 2023

Bachelor of Engineering - Computer Science and Engineering

Software Programming, Databases, Logical Reasoning, Problem Solving

## EXPERIENCE

### CMTI (Central Manufacturing Technology Institute)

November 2023 - May 2025

Project Associate - R&D role

- Full-stack web app of a real-time remote machine health monitoring and maintenance system for 6 machines, providing a 50% reduction of excess labour in the manufacturing sector for machine parameter checks. Database migration from MongoDB to PostgreSQL
- Automatic Weld Defect Detection with Python PyQt as a Windows OS Desktop Application for real-time weld defect detection to reduce post-weld quality inspection. Thermal Image processing.
- Wireframe and prototype with Figma.
- Managed a team of 2 interns.

## PROJECTS

- Indian National Level AR Hackathon by Wavelaps, BharatXR and XDG Mumbai
  - Web development with React.js, Firebase authentication.
  - User Flow Mapping, designing and prototyping of an AR-based gamified learning experience for high-school students. <https://learnify-ce846.web.app/>
- Text to 3D mesh model using FreeNeRF - [GitHub Repository](#)
  - Render a 3D mesh model from textual input.
  - Pretrained diffusion model for generating images, and implemented FreeNeRF to generate 3D views from sparse input

## SKILLS

- |   |                                      |
|---|--------------------------------------|
| • JavaScript, React.js, Vue.js, MERN/PERN stack | • Machine Learning, Image Processing |
| • TailwindCSS                                   | • PCB programming                    |
| • Python, FastAPI, PyQt, Node.js, SQL           | • Figma, UI/UX, WIX, WordPress       |
| • PostgreSQL, MongoDB                           | • AR, Unity, Fusion                  |
| • C++, C#, Arduino                              | • Docker, GitHub, Git                |

## ACHIEVEMENTS

- Secured 1st place in Final Year Project Presentation in the CS&E Department
- Headed the Literary Club in college. Conducted debates and poetry sessions.
- Volunteered in Govt. School Beautification Projects enhancing learning spaces in rural areas.