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, Creative Thinking, Designing, 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
- TailwindCSS
- Python, FastAPI, PyQt, Node.js, SQL
- PostgreSQL, MongoDB
- C#, Arduino

- Machine Learning, Image Processing
- PCB programming
- Figma, UI/UX, WIX, WordPress
- AR, Unity, Fusion
- 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.