Yaparla Sainatha Reddy

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Experience

- **NxtWave** — June 2024 – Current
  Teaching Assistant – Python Programming — Remote
  - Resolved doubts, reviewed code submissions, and provided detailed feedback to ensure conceptual clarity and coding best practices.

Education

- **IIITDM Kancheepuram** — Aug 2023 - June 2028
  Dual Degree in Computer Science Engineering — Chennai, India
  - GPA: 8.00/10.00

- **Bhashyam Junior College, APBIE** — 2021 - 2023
  Class 11 and 12 — Guntur, India
  - Grade: 950/1000

- **VISWABHARATHI WISEWOODS(EM) HIGH SCHOOL, CBSE** — 2020
  Class 10 — Krishna, India
  - Grade: 460/500

Projects

- **Developer's Club – Official Club Website** [⌾]
  Technologies Used: Next js, Tailwind CSS, MongoDB.
  - Visit: www.devclub.iiitdm.ac.in
  - Responsive Design: Ensured cross-device compatibility
  - Interactive Features: Built dynamic sections like Home, Events, and Dashboard.
  - UI/UX Enhancements: Improved navigation and user experience
  - Team Collaboration: Engaged in code reviews and deployments.

- **Attendance Marking System – Face Recognition Based** [⌾]
  Technologies Used: Python, OpenCV, Face Recognition, Express.js, React.js
  - Developed a full-stack facial recognition attendance system with a Python backend and React frontend.
  - Image Capture: Integrated real-time webcam access using browser APIs to capture and upload images.
  - Backend Processing: Implemented a Python-based face recognition pipeline triggered via Express server.
  - Robust Integration: Ensured seamless image transfer, format validation, and automated attendance logging.

- **IoT Smart Home Appliances**
  Microcontrollers Used: Raspberry Pi, ESP32, Arduino Mega, Arduino Uno
  - Sensors: Extensive hands-on experience with a wide range of sensors including temperature, humidity, motion, gas, light, and proximity sensors.
  - Applications: Home automation, environmental monitoring, smart security systems.

Skills

- **Programming Languages:** Python, C, C++, SQL, JavaScript.
- **Frameworks/Libraries:** HTML, CSS, React, Node.js, Express js, Next js, pandas, NumPy, Matplotlib
- **Database Systems:** MySQL
- **Microcontrollers:** Raspberry Pi, ESP32, Arduino Mega, Arduino Uno
- **Other Tools & Technologies:** Power BI, Google Sheets, Git, Google Cloud Platform, VS Code

Leadership/Volunteer Experience

- **Vice-Headcore** — May 2025 - Current
  Developer's Club, IIITDM Kancheepuram

- **Hospitality Team Member** — March 2025
  Samgatha X Vashisht 2025, IIITDM Kancheepuram