Kimaya Chavan

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A passionate and driven second-year engineering student with a deep enthusiasm for robotics, AI, and automation. As a Technical Committee Member at DJS-ACM, I lead and collaborate on innovative engineering projects. Always eager to explore cutting-edge robotics technologies, I strive to contribute to impactful projects that advance automation and intelligent systems.

Education

DJ Sanghvi College of Engineering **2023-2027**

SY B-tech in Artificial Intelligence and Data Science (CGPA-9.52)

Projects

Interactive Floor Piano || Piezoelectric Sensors, Arduino, Speaker Output

- Developed a floor piano that converts foot taps into musical notes.

Quiz Management System || Python, MySQL

- Developed a Python-based system for Automated exam workflow, improving efficiency.
- Built an examiner portal to add, modify, and manage quiz questions. Integrated MySQL database for secure question storage and retrieval.
- Ensured secure data management with authentication and database integration.

Spot Robot Replica || OnShape

- Designed a 4-legged robotic model inspired by Boston Dynamics' Spot.
- Engineered hinged legs for stability on uneven terrain.

Obstacle-Avoiding Robot with Real-Time Temperature & Humidity Monitoring

|| ESP8266, Arduino, DHT11 Sensor, Ultrasonic Sensor

- Built an autonomous robot using ultrasonic sensors for obstacle avoidance.
- Integrated a DHT11 sensor with ESP8266 to monitor temperature and humidity displaying real-time data on dashboard.

Weighing Scale || Arduino Uno, 20g Load Cell, LCD Display

- Built a digital weighing scale capable of precise weight measurement. Integrated a 20g load cell with Arduino Uno for accurate readings.

Technical Skills - Certifications

- Languages: Embedded C, C, Python, Java, HTML, CSS, Javascript, MySQL
- Software: OnShape(3D-Modeling), Figma, Canva
- Microcontrollers: ARDUINO UNO, NodeMCU ESP8266
- Libraries: Pandas, Numpy, Matplotlib, Scikit-learn
- Developer tools: VSCode, Arduino IDE

Certifications

- **30-Day Arduino Course** – Topprs *[August,2020]*
- **Python Basics Certification** – HackerRank, *[January, 2025]*
- **Machine Learning Bootcamp** – DJS4DS, *[August, 2024]*
- **Introduction to Parametric Feature-Based CAD Design** – *OnShape*, *[Jan, 2025]*