

# SIRIGNYA REDDY

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## EDUCATION

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**Bhoj Reddy Engineering College for Women**

*GPA 8.15*

Hyderabad

*Nov. 2022 – present*

## SKILLS

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**Languages & Databases:** C, Java, Python, HTML, CSS, MySQL, MongoDB

**Tools & Analytics:** Machine Learning, Power BI, Tableau, PyCharm, Google Colab, VS Code, Git

## PROJECTS

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**AVA Desktop Assistant** — *Python, Kivy, AI*

[Link](#)

- Developed a cross-platform desktop assistant using Python and Kivy. Combined GUI design with real-time speech recognition and text-to-speech features.
- Automates tasks like app launching, WhatsApp/Gmail messaging, web search, and live updates (weather, news, object detection). Boosted efficiency by **40%** via voice/text commands.

**Automated Attendance System** — *Python, OpenCV, Face Recognition*

[Link](#)

- Built a facial recognition-based attendance system that captures faces via webcam and marks attendance by comparing facial encodings in real-time. Used OpenCV and pre-trained models for fast detection and matching.
- Reduced manual effort by **50%**, improving accuracy and preventing proxy attendance in institutions.

**Object Detection System** — *Python, YOLOv8, OpenCV*

[Link](#)

- Implemented real-time object detection using YOLOv8 and OpenCV with high accuracy on multi-class object identification from live feeds. Trained with COCO weights for multi-class recognition.
- Enhanced surveillance systems and reduced manual monitoring by **35%** with accurate live video classification.

**Hospital Management Website** — *HTML, CSS, PHP, MySQL*

[Link](#)

- Developed a responsive web app to manage hospital workflows: patient registration, appointment scheduling, and staff management using PHP and MySQL.
- Automated administrative workflows and record handling, achieving a **40% reduction** in manual data processing and improving operational efficiency.

**Automatic Hand Sanitizer Dispenser** — *Arduino, Ultrasonic Sensor, IoT*

- Engineered a touchless dispenser using Arduino UNO and ultrasonic sensors for motion detection and servo-based dispensing.
- Promoted safe hygiene during COVID-19 with **100% contact-free sanitation**, eliminating surface contact in public areas.

## CERTIFICATIONS & ACHIEVEMENTS

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### Hackathons

- **Runner-up** – *Vel Tech National Hackathon (Tech Innovation Challenge)*
- Participated in national-level hackathons: *Cypher-ProjectExpo, Jijnasa-DevSprint, Festronix-Webathon*, led a 5-member team at *Smart India Hackathon (SIH)*.

### Certifications

- Certified in *Prompt Engineering for Generative AI* and *Foundations of Generative AI* – *Microsoft & LinkedIn*.
- IBM SkillsBuild & CSRBX Micro-Internship – *Data Science & AI*.
- Certified – *Data Science using Python* – *Brainovision*.
- Workshop – *AI Dashboards using Power BI* – *Skill Nation*.
- Certified – *Salesforce Cloud Basics*.

### Leadership & Awards

- AI Club Coordinator – **Organized technical sessions and fostered peer learning in AI/ML**.
- Cultural Coordinator – **BRECW College Fest (2022–Present)**; managed major student events.
- Winner – *Throwball Tournament, Silver Jubilee Sports Fest (2022)*.