SIRIGNYA REDDY

sirignyareddy@gmail.com | github.com/sirireddy1205 | Personal Portfolio | linkedin.com/in/sirignya-reddy/

EDUCATION

Bhoj Reddy Engineering College for Women   Hyderabad
GPA 8.15   *Nov. 2022 – present*

SKILLS

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

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

PROJECTS

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.

CERTIFICATIONS & ACHIEVEMENTS

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

- Research Publication – *AVA: Artificial Virtual Assistant* in the **International Journal of Information Technology & Computer Science (IJITCE)**.
- Certified in *Prompt Engineering for Generative AI* and *Foundations of Generative AI – Microsoft & LinkedIn*.
- IBM SkillsBuild & CSRBOX Micro-Internship – *Data Science & AI*.
- Certified – *Data Science using Python* – Brainovision.
- Workshop – *AI Dashboards using Power BI* – Skill Nation.

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)*.