Riya Singh

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Education

CMR University, Bangalore, Karnataka	November 2022–Present
B.Tech. in Computer Science and Engineering	**8.79/10.00 CGPA**

St. Joseph's Indian Composite PU College - Bangalore
 Class XII (95%, 2022)

Madonna High School - Bangalore
 Class X (98.56%, 2020)

Projects

1) **Patient Record Dashboard | React, Tailwind CSS | Link**

- Built a **responsive patient record management dashboard** for **Jarurat Care NGO** (**assessment task**).
- Implemented search, filter and delete functionality using React Hooks with sample patient data to simulate real healthcare workflow.
- Designed a **mobile-friendly and user-focused interface** using Tailwind CSS, improving accessibility and usability across devices.

2) **Jarvis AI Assistant | Python | (Guided project) | Link**

- Developed a Python-based AI assistant that **responds to voice commands** and automates tasks such as **opening apps**, **fetching information,** and sending emails.
- Implemented voice recognition, text-to-speech, and command parsing using libraries like **speech_recognition, pyttsx3.**
- Structured modular code to simulate real-world assistant workflows and enhance reusability and scalability.

3) **Stock Data Pipeline | Python, Apache Airflow, PostgreSQL, Docker | Link**

- Developed an automated pipeline to fetch daily stock price data from **AlphaVantage API**, process it, and store in PostgreSQL.
- Built with Apache Airflow DAGs and modular Python scripts for scheduling, ETL, and data storage.
- Deployed inside Docker containers with Airflow Webserver, Scheduler, and PostgreSQL for easy setup and reproducibility.
- Secured credentials **using .env** and ensured scalable, maintainable architecture for future data workflows.

Technical Skills

Programming Languages: Proficient in Python; Familiar with JavaScript (Basics) and C/C++
Full Stack Development: Familiar with React.js, HTML, CSS, and responsive UI design
Databases: Proficient in SQL, PostgreSQL
Data & AI: Knowledge of Machine Learning and AI Algorithms (Basics)
Tools & Platforms: Git, GitHub, VS Code, Experience using Android Studio for basic app development
Operating Systems: Windows, Linux (Basic command-line use)

Extracurricular Activities

- **HackQuest 2025 – CMR University**
 Developed a simulated phishing attack using XAMPP, PHP, and Python; demonstrated teamwork, technical precision, and ethical awareness under time constraints.
- **Arduino Project Expo 2024 – CMR University**
 Presented an Arduino-based biometric door lock with fingerprint and relay control; showcased innovation, problem-solving, and multidisciplinary collaboration.
- **Design Thinking Day – CAUSE 2023, CMR University**
 Contributed to ideation and team presentations in a global innovation challenge; enhanced creativity and collaborative design thinking.