Sparsh Rai

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Career Objective

Information Science student with a solid foundation in software development, passionate about leveraging technology to solve real-world problems. Skilled in programming, cloud platforms, and web technologies, with a strong interest in product strategy and user-centered design. Adept at collaborating with cross-functional teams to deliver innovative and scalable solutions. Eager to contribute analytical thinking and technical expertise to dynamic organizations focused on creating impactful digital products and improving user experiences.

Education

B.E., Information Science And Engineering	*2022–2026*
Sahyadri College of Engineering and Management, Mangalore	*CGPA: 7.96 / 10*
PUC (Science)	*2020–2022*
Canara PU College, Mangalore	*84.1%*
SSLC	*2017–2020*
St. Joseph English Medium High School, Mangalore	*94.24%*

Technical Skills

- **Programming Languages:** Java, Python, C
- **Web Technologies:** HTML, CSS, JavaScript
- **Databases:** MongoDB, MySQL, Neo4j
- **AI/ML Tools:** DeepFace, Perplexity Sonar API
- **Tools & Platforms:** Git, GitHub, Google App Engine, VS Code
- **Core Competencies:** Problem Solving, DSA, System Design Basics, API Development

Academic Projects

AI-Powered Crime Mapping & Criminal Intelligence Chatbot
Tech Stack: Python, Flask, MongoDB, Neo4j, DeepFace, JavaScript, Perplexity API
Developed an AI-driven crime analysis system supporting natural-language querying, descriptive suspect search, and network-level criminal intelligence extraction. Implemented graph algorithms (BFS, associate-path tracing), crime pattern detection, and co-offender network mapping. Integrated DeepFace for face verification and Perplexity Sonar API to generate intelligence-style analytical reports from structured crime data.

Cloud GAE-Based Student Feedback System
Tech Stack: Google App Engine, HTML/CSS/JS, Python, Datastore/Cloud SQL
Built a cloud-hosted platform for secure and scalable student feedback collection. Designed backend services for data storage, form processing, and session management using Google Cloud.

NGO Donation Platform
Tech Stack: TypeScript, JavaScript, HTML, SQL
Developed a full-stack donation management portal enabling NGOs to publish campaigns and receive contributions securely. Focused on database design, authentication, and user-friendly UI.

Certifications

- Java Programming – Abdul Bari (Udemy)
- Generative AI for Beginners – Aakriti E-Learning Academy