Surbhi Rana

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Professional Summary

Driven Computer Science student with expertise in AI/ML, full-stack development, and problem-solving. Proven track record in building innovative solutions from fraud detection systems to computer vision applications. Strong leadership experience and active participant in national-level hackathons and coding competitions.

Education

B.Tech in Computer Science & Engineering, Sharda University	CGPA: 9.1/10	2022–2026
Class XII, S.V.S.V.M, Rajendra Nagar (NCR)	95.6%	2021–2022
Class X, S.V.S.V.M, Rajendra Nagar (NCR)	92.4%	2019–2020

Technical Skills

- **Languages:** Python, C++, Java, JavaScript
- **Frameworks & Libraries:** Django, OpenCV, Bootstrap
- **AI/ML:** Supervised Learning, LLMs, RAG, Prompt Engineering
- **Tools & Platforms:** Git, GitHub, VS Code, Google Colab
- **Database:** MySQL, SQLite, Data Analysis
- **Soft Skills:** Team Leadership, Problem Solving, Communication

Key Projects

Fraud Detection using LLM and RAG — May 2024 – Jul 2024
⚙ ranasurbhi/fraud-detection
GenAI • Machine Learning • RAG • Python

- Engineered a fraud detection pipeline combining Retrieval-Augmented Generation (RAG) with LLMs to analyze financial statements and identify anomalies
- Used a retrieval system to fetch contextually relevant financial documents, enhancing LLM interpretability and accuracy
- Generated concise, human-readable fraud reports explaining detected anomalies with contextual evidence
- Designed to aid auditors and regulators by improving fraud detection accuracy and reducing false positives

Virtual Mouse with Custom Gestures — Aug 2024 – Oct 2024
⚙ ranasurbhi/virtual-mouse
Computer Vision • OpenCV • Mediapipe • PyAutoGUI • Python

- Developed a real-time gesture-based mouse control system using webcam input and hand landmark tracking
- Implemented customizable gesture mapping (e.g., left/right-click, scroll, drag) via Tkinter interface
- Leveraged Mediapipe for precise hand detection and OpenCV for gesture interpretation with >90% accuracy
- Enabled hardware-free accessibility solution with smooth user interaction and low latency

ResuMate – ATS-Optimized Resume Builder — Nov 2024 – Dec 2024
⚙ ranasurbhi/resumate
Web Development • GenAI • Django

- Built an interactive web platform to help users create, preview, and download professional resumes
- Integrated GenAI to evaluate resumes against job profiles and provide real-time ATS (Applicant Tracking System) feedback
- Enabled live preview updates using vanilla JavaScript for seamless user experience
- Designed for high usability with clean layouts, job-based optimization tips, and multi-format download options

Nostalgia Chronicles – Memory Platform — Nov 2023 – Dec 2023
⚙ ranasurbhi/nostalgia-chronicles
Django • GenAI • Full-stack

- Developed a full-stack web platform to deliver personalized nostalgia-based content by category (music, movies, events, etc.) and year
- Implemented responsive UI with retro-themed design for desktop and mobile using HTML, CSS, and JavaScript
- Used Django to handle dynamic content delivery and category-wise historical data retrieval
- Designed intuitive, memory-triggering experience for users to relive past decades through curated APIs or scraped data

Achievements & Leadership

- **J.P. Morgan Code for Good 2025:** Selected among top candidates nationally after clearing coding rounds and technical interviews
- **Team Lead – R&D, E-Cell Club:** Led 5-member team to execute innovation events, increasing student engagement by 30%
- **National Hackathons:** Active participant in Smart India Hackathon, Technovation 5.0 & 6.0 with focus on collaborative problem-solving
- **Academic Excellence:** Consistent high performer with 9.1 CGPA and 95.6% in 12th grade