Pari Singh

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Objective

Computer Science undergraduate passionate about building impactful and scalable software products with hands-on experience in full-stack development, machine learning, and AI-driven web applications using modern technologies and frameworks.

Education

Amity University, Gwalior, Madhya Pradesh, India 2022–2026
B.Tech in Computer Science and Engineering *CGPA: 8.78/10*

Sunbeam English School, Varanasi 2022
Class XII – CBSE *86.8%*

Sant Atulanand Convent School, Varanasi 2020
Class X – CBSE *90.8%*

Projects

SafeWay – Women Safety Route Recommendation System 2025
Node.js, Express, React, PostgreSQL, Prisma, Redis, Twilio, JWT *GitHub | Live | Demo*

- Designed Node.js service generating up to 3 route options per request with safety scoring and fallback handling.
- Added Redis caching for route results, reducing repeated API calls and improving latency by 35%.
- Implemented JWT-secured REST APIs with interceptors and auto logout on 401 errors.
- Integrated Twilio SMS for SOS alerts delivering location within approx. 5 seconds.
- Added API tests for auth, routes, and SOS flows validating edge cases and failure responses.

MindSpace – AI Mood Tracking & 7-Day Prediction Web App 2024
Flask, Python, scikit-learn, NLP, Keras, SQLite, Tailwind CSS *GitHub | Demo*

- Designed Flask APIs with normalized SQLite schema to store mood logs and journal entries for time-series analytics.
- Built 7-day prediction engine using weekday clustering, trend slope, and trigger weights over 30-entry history.
- Integrated TF-IDF NLP pipeline and CNN face inference into a unified API workflow for multi-modal signals.
- Implemented confidence-bounded scoring (0.3–0.95) with validation and reasoning generation for forecasts.
- Added input validation and error handling for journal processing and analytics endpoints.

PhishNet – Real-Time Phishing URL Detection System 2024
Python, Flask, scikit-learn, BeautifulSoup, WHOIS, Tailwind CSS *GitHub | Live | Demo*

- Built Flask-based backend for real-time URL analysis and ML inference serving.
- Engineered 30-feature detection pipeline using lexical, domain, and HTML signals (93.4% accuracy).
- Implemented scraping and WHOIS lookups with robust error handling and timeouts.
- Developed UI to visualize risk scores and prediction confidence.

Technical Skills

- **Core:** Node.js, Express, REST APIs, JWT, Redis, Flask
- **Languages:** C++, Python, JavaScript, Java
- **Databases:** PostgreSQL, MySQL, SQLite
- **Machine Learning:** scikit-learn, NLP, Pandas, NumPy
- **Tools:** Git, Docker, Jupyter, VS Code

Certifications & Achievements

- Supervised Machine Learning – DeepLearning.AI (2025).
- Microsoft Cloud Skills Challenge – Azure ML (2024).
- Data Structures and Algorithms using C & C++ – Udemy.
- NASSCOM–DSCI Cybersecurity Hackathon – AISS 2024.
- Solved 200+ DSA problems on LeetCode using C++.