Aditi Singh

Portfolio | aditi.singh0205@gmail.com | 9324341202 | Linkedin | Github

Education

KJ Somaiya College of Engineering BTech in Computer Engineering with Honours in Data Science   July 2023 – May 2027

- CGPA: 9.6/10 *(link to Marksheet)*

Projects

Exchlytics AI | *Scapy, PyShark, Microsoft Phi, Azure AI, Streamlit*   June 2025

- Developed Exchlytics AI, an AI-powered PCAP analysis tool for financial trading systems, delivering real-time diagnostics on latency, packet loss, and performance bottlenecks.; this project won the **Microsoft CWB'25**
- Integrated Microsoft Phi and custom LLMs to generate natural language summaries of network behavior, enabling faster anomaly detection and resolution in trading environments.

Deepfake Audio Detection | *Python, Tensorflow, Librosa, Scikit-learn, Streamlit*   April 2025

- Developed a deepfake audio detection model using Python, TensorFlow, and CNNs, achieving 90.91% accuracy in distinguishing real vs. synthetic speech.
- Utilized librosa for audio feature extraction, scikit-learn for evaluation, and Streamlit to deploy an interactive detection interface.

AdFlow AI | *React, Express, TelegramBot, TwitterAPI, GeminiAPI, GoogleTrends API*   February 2025

- Developed a predictive analytics feature that informed marketing strategies, directly contributing to an increase in customer acquisition rates via budget allocation through rigorous iterative testing and machine learning.
- Developed a comprehensive integration strategy that improved data flow between marketing and analytics platforms, resulting in a 25% reduction in reporting time and enabling quicker adjustments to ongoing campaigns.

MedSafar | *React, Bootstrap, Node JS, Solidity, Ganache, Hardhat, Tensorflow*   September 2024

- Spearheaded creation of a blockchain-based medical record system with emergency access protocols, achieving a 95% data retrieval success rate during simulated emergency scenarios, exceeding initial project goals.
- Utilized ML to optimize drug supply chain management with tracking, fraud detection, and demand forecasting.

Technical Skills

Languages: Python, C, C++, Java, JavaScript, TypeScript, SQL, R
Libraries & Frameworks: NumPy, Pandas, Matplotlib, SciPy, TensorFlow, PyTorch, Scikit-learn, Django, Flask, FastAPI
Web Development: React, Next.js, Angular, Node.js, Express, Tailwind CSS, WebSocket, REST APIs, GraphQL, Docker
DevOps & Tools: Git, GitHub, GN Build System, Docker, Streamlit, Postman
Cloud & AI Platforms: Microsoft Azure AI Foundry, OpenAI API, Ollama, Hugging Face Transformers
Data Analysis & Visualization: PyShark, Scapy, Wireshark, SQL, Streamlit, Power BI

Positions of Responsibility

KJSCE Codecell, Creative Head   July 2024 - *Present*

- Spearheaded the creative strategy and visual branding for a 800+ member tech community, leading end-to-end design and promotion across 10+ events and workshops; amplified community engagement and event participation through impactful campaigns, social media content, and multimedia storytelling.

Honors

- **Winner** of the **Microsoft Code Without Barriers Hackathon** (5,000+ participants across the APAC region)
- **SIH' 2024** - secured a Top 5 Finalist spot advancing through 395 competing teams
- **Runner up** at Codecraft CTF'25 from 50+ teams, showcasing advanced problem-solving and cybersecurity skills.
- 2 Star at **Codechef**