

ISHAN SURANA

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ABOUT ME

Final year student at MIT Manipal, deeply passionate about cybersecurity and software development. I actively engage with local tech communities and often participate in AI/ML competitions, hackathons, and Capture The Flag challenges. I speak English and Hindi with native proficiency, and have intermediate proficiency in French.

EDUCATION

B.Tech in Information Technology, Manipal Institute of Technology Expected 2026
Relevant Coursework: DSA, OOP, DBMS, OS, Computer Networks, Data Mining, AI, ML.

SKILLS

Programming languages	C, Python, Java, JavaScript, TypeScript, PHP, Rust, Bash
Technical Skills	Data Structures and Algorithms, Object Oriented Programming, Networking, Database Management, Cybersecurity
Software Development	HTML, CSS, Bootstrap, Tailwind, MongoDB, MySQL, Express, React, Redux, Angular, Django, Flask, Spring Boot, SQLite, PostgreSQL, Neo4j, WebSockets, Git, GitHub Actions CI/CD, Microsoft Azure, AWS suite, Jenkins, Docker
Other Skills	AI, ML, DL, Image Processing, CV, NLP, LangChain, Time Series Analysis, Demand Forecasting, Web Scraping, Web Exploitation, Cryptography, PowerBI

EXPERIENCE

SDE Intern - Client Analytics Team May 2025 - July 2025
AQR Capital Management *Bangalore*

- Developed an internal AI tool for simplified data access and visualization for non-technical stakeholders, aimed to eliminate need of building customized dashboards.
- Built a conversational chatbot interface that fetches, interprets and visualizes real-time business data based on natural language queries, and enabled session-based customisation of data and prompt, with response times averaging from 5 to 10 seconds.
- Implemented LLM integration strategies, including structured knowledge bases and customizable frameworks, successfully working with several large scale cross-database connected tabular data with hundreds of columns and millions of rows each.

Machine Learning Intern May 2024 - July 2024
Brainvire Infotech *Mumbai*

- Developed scripts and applications to meet various needs of our clients, primarily focusing on time series analysis, sales prediction and demand forecasting (utilizing statistical and regressive ML models).
- Implemented and tested model pipelines, ensuring reproducibility of results with low latency. The best model had train and test accuracies (R2 score) of 91% and 84% respectively, on a very large dataset with 10M+ rows.

Core Team Senior Member December 2022 - Present
Cryptonite *Manipal Institute of Technology*

- Organized and hosted niteCTF 2023, where I prepared 2 challenges (regarding SQL injection and steganography).
- Active involvement in the AI/ML and research domains, with work on federated cyber-attack analysis framework, and dynamic ontology representation and reasoning incorporating knowledge graphs.

PROJECTS

FederaNet: A multi-modal cyber-attack classification CNN model, built as a component of a federated framework utilizing a custom blockchain system complete with consensus, smart contracts and zero knowledge proofs.

cryptosystems: The cryptosystems Python package offers classes for both symmetric and asymmetric cryptography, signature/verification, hashing, key exchange protocols and utility functions implemented from scratch in C.

ChessMate: A full-stack chess web application that allows users to use accounts and play chess with move validation in real-time rooms, view match history and receive worst move analysis with dynamic match data storage. The website is built using MERN stack along with Bootstrap, Redux and WebSockets

RhythmRecommend: An adaptive e-reader android mobile application that uses AI and NLP to dynamically adjust ongoing soundtrack based on context for enhanced reading immersion. The app is built entirely in Java and connects to a Flask backend that uses Gemini to respond an emotion among an enum of preconfigured choices.

CERTIFICATIONS

- **Machine Learning and Deep Learning - Fundamentals and Applications** by IIT Guwahati offered through NPTEL. Secured a rank in the top 1% nationwide in the exam. [View Certificate](#)
- **Natural Language Processing** by IIT Kharagpur offered through NPTEL. Secured a rank in the top 5% nationwide in the exam. [View Certificate](#)
- **Deep Learning** by IIT Ropar offered through NPTEL. Secured a rank in the top 1% nationwide in the exam. [View Certificate](#)
- **Ethical Hacker** by Cisco. [Download Certificate](#)
- **Machine Learning Specialization** by Stanford Online. [View Credential](#)
- **Google Cybersecurity Professional Certificate**. [View Credential](#)
- **Quantum Explorer 2023: Intermediate** by IBM. [View Credly badge](#)

ACHIEVEMENTS

- **L&T CreaTech 2024 - All India 2nd runner up** as part of the team I&T Solutions. We created scripts to scrape data from several social media sites and developed a custom CNN architecture to perform sentiment analysis using NLP techniques.