

Ishaan Kashiv

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Profile

Excellent Full-Stack Developer and curious Computer Science student with strong expertise in Python, Computer Networking, and Database Management Systems. Experienced in developing secure client-server applications and scalable community platforms. Skilled in software design, implementing networking protocols and AI. Engineered authentication and session management protocols, fortifying application security with SHA-256 encryption and curtailing vulnerability risk by 80%, demonstrably exceeding cybersecurity goals. Looking for opportunities to apply technical knowledge in tech companies and contribute to building high-performance systems.

Education

Vellore Institute of Technology, Bhopal, B.Tech in Computer Science and Engineering 2023 - 2027

- CGPA: 8.53/10.0
- **Coursework:** Full-Stack Development, Databases, System Design, Computer Architecture

Projects

JABchat: A Secure Chat Application [github link](#)

- Developed a secure multithreaded chat app supporting **65000+ concurrent users** using Python, TCP/IP, Socket Programming, and WebSockets.
- Implemented authentication, session management, and encrypted communication with **SHA-256 hashing, reducing vulnerability risk by 80%**.
- Built offline message delivery and error handling to ensure **99.9% message reliability** with real-time messaging and active connection tracking.
- Tech Used: Python, WebSockets, TCP/IP, Multithreading, SHA-256, Cryptography, Data Structures, HTML, CSS and JavaScript

College Feedback Classifier [github link](#)

- Developed an AI-powered web app with Streamlit to classify **500+ student feedback entries** into Academics, Facilities, and Administration.
- Integrated IBM watsonx.ai foundation models (FLAN-T5, Mistral) through a prompt-based API that achieves **85–90% classification accuracy**.
- Engineered scalable backend with **CSV batch support (10k+ entries)** and lightweight architecture for seamless deployment.
- Stack Utilised: Python, Streamlit, IBM watsonx.ai (FLAN-T5, Mistral), REST API

Personalized News Aggregator 2025

- Developed an intelligent web application aggregating **100k+ global news articles** daily from multiple APIs and RSS feeds into a unified dashboard.
- Implemented an AI-driven recommendation engine using transformer models (BERT, LLaMA 3) to personalize article feeds with **90%+ accuracy** based on user preferences and behavior.
- Engineered a FastAPI backend with asynchronous processing, enabling real-time updates and **40% faster response times** for user requests.
- Designed a user interest tracking module leveraging sentiment analysis and clustering (K-Means, TF-IDF) to adapt recommendations dynamically with **92% accuracy**.
- Required Technologies: Python, FastAPI, React.js, Tailwind CSS, WebSockets, BERT, LLaMA 3, Scikit-learn, REST APIs, MongoDB, Notification API, Secure Transactions, etc.

Certifications and Courses

- Bits and Bytes of Computer Networking – Coursera (Google)/ 92%
- Generative AI Fundamentals – IBM/ 97%
- Introduction to Machine Learning - NPTEL/ 60%

Technologies

Programming Languages: Python, Java, C++
Web Development: HTML, CSS, JavaScript, React.js, Prism.js, Tailwind CSS
Backend Technologies: Socket Programming, WebSockets, MongoDB, PostgreSQL, Hashing, Encryption, Decryption
Tools and Platforms: Visual Studio Code, Git, GitHub, GitHub Actions, GitHub Pages, AWS, Docker
Technologies: WebSockets, Flask, REST APIs, HTML, CSS