

# Chandan Kumar

Aspiring Full Stack Developer | Cloud & Machine Learning Enthusiast

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## Professional Summary

Computer Science undergraduate passionate about building scalable and reliable software solutions. Experienced in full stack development, cloud technologies, and machine learning with strong foundations in data structures, algorithms, and problem-solving. Proficient in C++, Python, and collaborative software development practices. Seeking to contribute to Microsoft's mission of empowering every person and organization on the planet to achieve more.

## Education

**Jaypee University of Information Technology, B.Tech. in Computer Science** 2022–2026  
CGPA: 7.3/10

**A.S. College, Bikramganj (BSEB)** 2020  
Class XII – Score: 78%

## Experience

**Full Stack Developer Intern – Unified Mentor Pvt. Ltd.** Feb–Mar 2025

- Designed and deployed 2 real-time full stack applications using Node.js, Firebase, HTML, and JavaScript
- Integrated Firebase Auth, Realtime Database, and Hosting for complete deployment pipelines
- Collaborated via GitHub using branching, pull requests, and documentation best practices

## Projects

**Super Mall Web App** – Node.js, Firebase, HTML/CSS, JavaScript

- Designed a multi-floor e-commerce mall layout with real-time shop and product browsing
- Integrated Firebase for authentication, Realtime Database for dynamic product/offers, and Hosting
- Implemented product comparison, cart, checkout, and merchant dashboard with clean UI

**Real-time Chat App** – JavaScript, WebSockets, Firebase

- Developed a real-time group messaging app with WebSocket protocol and Firebase backend
- Enabled dynamic room creation, instant messaging, and cross-device sync
- Built responsive frontend UI with minimal delay in chat updates and user join/leave detection

**AI-Driven Intrusion Detection System** – Python, scikit-learn, Pandas

- Built a machine learning pipeline using the UNSW-NB15 dataset for detecting cyber attacks
- Applied SMOTE for data balancing and used ensemble models (Random Forest, XGBoost, CatBoost)
- Achieved 96.4% accuracy in binary classification; evaluated using confusion matrix and F1 score

## Technical Skills

**Core Competencies:** Data Structures & Algorithms (arrays, linked lists, trees, graphs, dynamic programming), Object-Oriented Programming, Problem-Solving

**Languages:** C++, Python, C, JavaScript

**Web Dev:** HTML, CSS, JavaScript, Node.js, REST APIs

**ML:** scikit-learn, Pandas, NumPy

**Cloud & Databases:** Firebase (Auth, Realtime DB, Hosting), MySQL, AWS

**AI Tools:** AWS PartyRock, SageMaker, Foundation Models

**Tools:** Git, GitHub, VS Code, Postman, Firebase CLI

## Certifications

- System Architect Essentials – Pega Academy (Pega Infinity)
- Machine Learning Specialization – DeepLearning.AI
- Introduction to Cloud Computing – IBM (Coursera)
- Git and GitHub – IBM (Coursera)
- Web Development – IBM (Coursera)
- Generative AI with AWS – AWS AI & ML Scholars Challenge (2025)

## Extracurricular Activities

**Smart India Hackathon 2023**

Participated from 23–24 Sept; ranked 12th out of 50+ teams in the internal round

**NCC Cadet – 1 HP Bn NCC (B Certificate Holder)**

Completed ATC-131 and ATC-196 camps. Demonstrated leadership, discipline, and time management

**Cyber Security Consultant (Virtual) – Deloitte Australia (Forage)**

Simulated a cyber breach response: log analysis, threat detection, and mitigation strategies