

# Tanish Chowdhury

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## Education

**Indian Institute of Information Technology, Allahabad**, BTech in Information Technology - Business Informatics Sept 2023 – May 2027

- GPA: 7.67/10.0
- **Coursework:** Data Structures, Design and Analysis of Algorithms, Computer Networks, Operating System, Database Management Systems, Object Oriented Programming, Operations Research, Computer Architecture

## Experience

**CodePlus Teaching Assistant**, IIIT Allahabad January 2025 - Present

- Mentored junior students in competitive programming and data structures & algorithms
- Organized coding competitions, training sessions, and workshops to enhance students' problem-solving skills
- Developed leadership, communication, and organizational skills through mentoring and event organization.

## Projects

### Decentralized Identity Management System Using Blockchain

- Developed a blockchain-based identity management system to enhance user privacy and security
- Implemented smart contracts for self-sovereign identity authentication without central authorities
- Designed a zero-knowledge proof (ZKP) authentication system to allow secure identity verification
- Skills Used: Blockchain, Smart Contracts, Solidity, Cryptography, Python, Identity Management

### Machine Learning-Based Intrusion Detection System (IDS)

- Built a machine learning model to detect network intrusions and classify cyber threats
- Collected and analyzed network traffic data for malware and suspicious activity detection
- Achieved high accuracy in anomaly detection using Random Forest, SVM, and Neural Networks
- Skills Used: Python, Scikit-learn, TensorFlow, Data Analytics, Cybersecurity, Network Traffic Analysis

## Technologies

**Programming Languages:** Python, Java, C/C++, SQL, Solidity

**Machine Learning & AI:** TensorFlow, PyTorch, Scikit-learn, Keras

**Big Data & Cloud Computing:** Hadoop, Spark, PySpark, AWS, Google Cloud

**Data Science & Analytics:** Pandas, NumPy, SciPy, Matplotlib, Seaborn, Tableau, Power BI

**Tools & Frameworks:** React Native, Firebase, Docker, Kubernetes, Wireshark, Metasploit

## Extracurricular Activities

- Member, AI/ML Wing - Geekhaven, IIIT Allahabad
- Vice Captain, Soccer team - IIIT Allahabad

## Certifications

- Machine Learning Specialization, DeepLearning.AI - Coursera
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- Foundations of Cybersecurity, Google - Coursera
- Big Data, University of California, San Diego - Coursera