



Mr. Ankurjyoti Borah is currently an Assistant Professor in the Computer Science & Engineering (Cyber Security) Program at Dayananda Sagar University. He holds his M.Tech in Information Technology from Netaji Subhas University of Technology (NSUT), New Delhi. His research

interests primarily focus on Cybersecurity, Network Security, Intrusion Detection Systems, Machine Learning, Blockchain Technology, Distributed Systems, and Artificial Intelligence. He has actively worked on network intrusion detection, synthetic attack data generation, blockchain-based secure systems, and intelligent computer vision applications.

Primarily his work revolves around the evaluation of machine learning-based Intrusion Detection Systems, analysis of synthetic network attack datasets, and the application of blockchain technologies for secure decentralized infrastructures. His areas of expertise include Cybersecurity Analytics, Intrusion Detection Systems, Machine Learning, Network Traffic Analysis, Blockchain Technologies, Distributed Systems, Computer Vision, and Secure Computing Architectures. He is also interested in exploring advanced applications of Artificial Intelligence and Machine Learning in cybersecurity, threat detection, digital trust systems, and next-generation secure computing environments.

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Research Interests

- Cybersecurity and Network Security
- Intrusion Detection Systems (IDS)
- Machine Learning for Security Analytics
- Synthetic Data Generation and Generative AI Models
- Blockchain Technology and Distributed Systems
- Cryptography and Secure Computing
- Network Traffic Analysis and Attack Detection

- Computer Vision and Deep Learning
- Artificial Intelligence for Cyber Defense
- Secure Decentralized Architectures

Professional Highlights

- Conducted research on evaluating the functional validity of synthetic network attack data for Intrusion Detection Systems using CTGAN and TVAE generative models.
- Developed a Distributed Blockchain-Backed Secure Voting Infrastructure leveraging Ethereum smart contracts, Web3 technologies, and cryptographic verification mechanisms.
- Experience in network security research, synthetic data evaluation, and machine learning model validation.
- Strong academic background in Information Technology, Cybersecurity, Distributed Computing, and Software Systems.
- Qualified GATE(2023,2024) and achieved Top 1% performance in various NPTEL certification courses.

Vision and Goals

Mr. Ankurjyoti Borah aspires to contribute towards advanced research in Cybersecurity, Artificial Intelligence, Secure Distributed Systems, and Blockchain Technologies. His vision is to develop scalable, intelligent, and trustworthy security solutions capable of addressing emerging cyber threats while contributing to impactful research in network security, machine learning, digital trust systems, and next-generation computing infrastructures.

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