



Sujnan Kumar

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EDUCATION

Bachelor of Engineering, Mangalore Institute of Technology and Engineering Expected 2026

Relevant Coursework: Data Structures and Algorithms, Operating Systems, OOPS with Java, Principles of Programming, Analysis and Design of Algorithms, Web Development, and Database Management.

SKILLS

Languages	Python, C, Java, JavaScript
Technologies and Tools	Flask, React, Node.js, Git, Wireshark, Burp Suite
Technical Skills	Competitive programming, Cybersecurity, Data Structures
Soft Skills	Problem-solving, Teamwork, Leadership, Communication

PROJECTS

Plastic Management System: Built a platform to promote plastic recycling by providing incentives and fostering collaborations with local shops to encourage eco-friendly practices. Developed an admin dashboard using React to manage recycling statistics and shop collaborations, and partnered with local shops to distribute recycled plastic products, promoting a circular economy.

AI-Powered Natural Language Video Retrieval and Anomaly Detection for Large-Scale Surveillance: Developing an AI-powered natural language querying system for large-scale surveillance to enhance CCTV footage analysis. The system efficiently detects anomalies and unusual behavior, automatically alerting the maintenance team. It enables instant retrieval of specific video clips from vast surveillance feeds using simple natural language queries, such as "Retrieve footage of a red car crossing the front gate before 9 AM." Featuring real-time visualization, AI-driven video processing, and high-speed data indexing, this project ensures seamless and efficient security monitoring.

OEM Webscraping for Vulnerability Analysis: Developed an AI-powered OEM web scraping application that continuously extracts data from OEM websites in real time, ensuring instant updates for enterprise users. The system identifies and alerts users about new vulnerabilities, providing remediation steps via automated emails and notifications. Designed for large-scale companies, the platform leverages AI-driven scraping techniques to enhance accuracy, minimize delays, and deliver actionable security insights.

Stock Optimization: Developed an automated stock portfolio optimization system that analyzes market trends and recommends optimal stocks based on user risk tolerance. The system leverages machine learning models to predict stock performance, dynamically adjusts portfolio allocations, and provides data-driven insights for investment decisions.

Capture the Flag Platform: Developed a CTF platform for hosting cybersecurity challenges, featuring a user dashboard for challenge participation and flag submission, an admin dashboard for managing challenges and users, a real-time scoreboard, and user authentication. Successfully hosted a competition with 100+ participants.

ACHIEVEMENTS

Secured 1st Place in the ZERO DAY CTF a national-level cybersecurity competition organized by Zero Logon, sponsored by NULL Kolkata and PWNEDLABS. Demonstrated expertise in reverse engineering, web exploitation, cryptography, and forensics.([Certificate](#))

Secured 3rd Place in the ACN Capture The Flag held during Amrita CyberNation 3rd Edition on September 11-12, 2024, organized by the Department of Computer Science and Engineering, Amrita School of Computing, Chennai.([Certificate](#))

Selected for the final round of **Smart India Hackathon (SIH) 2024** showcasing innovative problem-solving skills at a prestigious national-level event.

Won several **intercollege coding and CTF competitions**, demonstrating strong problem-solving and cybersecurity skills across various domains.

CERTIFICATIONS

Programming, Data Structures And Algorithms Using Python, Achieved top 5% in the course by IIT Madras in NPTEL. ([Completion Certificate](#))

Google Cybersecurity Specialization. ([Completion Certificate](#))

Programming for Everybody (Getting Started with Python). ([Completion Certificate](#))

Google Cloud Computing Foundations(NPTEL). ([Completion Certificate](#))

LEADERSHIP

Technical Lead, Crypton Club: Serving as the Tech Lead of Crypton, a cybersecurity club at MITE, responsible for organizing CTFs and leading initiatives to promote cybersecurity awareness. Successfully hosted a national-level CTF under the club, with participation from 100+ teams, enhancing engagement in ethical hacking and cybersecurity challenges.