

Amogh E M

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EDUCATION

PES University , Bengaluru, India <i>Bachelor of Technology in Computer Science and Engineering</i>	Aug 2023 – Sept 2027 GPA: 8.11/10
Coursework: Data Structures & Algorithms, Operating Systems, Database Systems, Linear Algebra, Probability & Statistics, Calculus, Computer Networks, Machine Learning, Software Engineering	

LEADERSHIP & RESEARCH EXPERIENCE

Information Security and Forensics Research (ISFCR), PES University	Bengaluru, India
<i>Technical and CTF Team Lead</i>	<i>Sept 2023 – Present</i>
<ul style="list-style-type: none">Directed technical initiatives and team operations within the research centerExecuted penetration tests using advanced Linux-based security toolsOrganized 5+ workshops and CTF events, engaging over 200 students.Served as Teaching Assistant for M.Tech Ethical Hacking, mentoring 20+ graduate students on penetration testing and vulnerability assessment.	
<i>Research Trainee</i>	<i>June 2025 – July 2025</i>
<ul style="list-style-type: none">Conducted research on cybersecurity and blockchain technologiesAuthored a research paper accepted for publication	

PROJECTS

Malicious Agent Detection in Multi-Agent Systems <i>PyTorch, scikit-learn, NumPy, pandas</i> 🔗	Oct 2025
<ul style="list-style-type: none">Designed a hybrid CNN-RNN model in PyTorch to classify malicious agents, achieving 95.63% accuracy and using scikit-learn for performance evaluation.Optimized model evaluation pipelines using scikit-learn metrics and cross-environment validation.	
Decentralized Evidence Integrity System <i>Hyperledger Fabric, Go, IPFS, Express</i> 🔗	June – July 2025
<ul style="list-style-type: none">IEEE Computer Society Cloud Conference (IEEE CS Cloud 2025), accepted for publication.Built a tamper-proof digital evidence storage system leveraging IPFS and blockchain smart contracts.	
Road Safety Monitoring System <i>OpenCV, Keras, scikit-learn</i> 🔗	Feb 2024
<ul style="list-style-type: none">Developed a real-time road safety monitoring system with drowsiness detection and accident SOS features.Implemented live SOS alert modules with edge detection and event tracking.	
Interactive Stock Market Simulation Platform <i>React, Node.js (Express)</i> 🔗	Oct – Nov 2024
<ul style="list-style-type: none">Created a full-stack trading simulator for portfolio management and real-time technical analysis.Implemented portfolio tracking, trading simulations, and technical analysis tools for investment training.	

TECHNICAL SKILLS

Languages: C/C++, Python, Java, JavaScript, SQL
Frameworks: React, Next.js, Nest.js, Flask, FastAPI
Libraries: PyTorch, scikit-learn, NumPy, pandas
Developer Tools: Git, Docker, Linux

AWARDS & CERTIFICATIONS

Indomitus CTF — MIT Manipal 🔗	Mar 2025
Ranked 5th nationally (of 21 teams) representing PES University .	
Supervised Machine Learning Certificate — Stanford University 🔗	Sept 2025
Completed a comprehensive course on supervised learning algorithms and best practices.	
Intel AI Fundamentals — Intel Corporation	Jan 2022
Certified in core machine learning concepts, neural networks, and AI model deployment fundamentals.	