Surya Prakash

AI & Cybersecurity Engineer | Machine Learning for Threat Detection & AIOps
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Professional Summary

Results-driven Information Technology Security Engineer transitioning into AI-driven Cybersecurity. Combines 4+ years of hands-on experience in network defense, cloud security, and incident response with advanced knowledge in Artificial Intelligence and Machine Learning from IITM Pravartak. Specializes in developing and applying ML models for threat prediction, anomaly detection, and automated security operations (AIOps). Passionate about leveraging AI to enhance resilience, optimize detection, and reduce human response time in cybersecurity ecosystems.

Core Competencies

◆ Cybersecurity & Infrastructure: Fortinet, Cisco, Aruba, AWS Security, Firewall & SD-WAN Deployment, IDS/IPS, SIEM, Threat Intelligence, Cloud Compliance.

◆ AI & Machine Learning: Python, Scikit-learn, PyTorch, NLP, Computer Vision, EDA, Model Optimization, SQL.

◆ Programming & Tools: PowerShell, Bash, Wireshark, Nmap, Burp Suite, Jupyter Notebook, Git, Matplotlib, Pandas.

◆ Cross-Domain Strengths: AI-based Threat Prediction, Network Anomaly Detection, SOC Automation, Secure Cloud Deployments.

Professional Experience

Lingaasys Technology, Tiruppur, TN — Information Security Analyst (Sep 2021 – Present)

• Designed and deployed Fortinet SD-WAN across 21 branches, improving secure connectivity and performance.
• Configured Fortinet Firewalls, enabling advanced security policies, IPS, and traffic management.
• Led a Crypto Miner investigation — identified and neutralized unauthorized crypto mining on corporate systems.
• Conducted AWS Cloud migration ensuring data integrity and compliance with ISO and GDPR standards.
• Automated endpoint patching and deployment using Microsoft SCCM.
• Developed incident response playbooks and policy documentation for audit readiness.
• Delivered 40% risk reduction through network hardening and proactive security analytics.
• Collaborated with cross-functional teams to implement AI-based threat monitoring prototypes for log analysis.

AI & ML Project Portfolio

• Chatbot using Hugging Face: Built a conversational AI chatbot leveraging transformer-based NLP for contextual responses.

• Face Detection & Style Transfer: Applied CNNs and Neural Style Transfer for real-time artistic face transformations.

• Customer Feedback Analysis (NLP): Implemented sentiment analysis and summarization using deep learning and text mining.

• AIML_PhonePay: Developed ML model for transaction fraud detection and anomaly analysis.

• AIML_Luxury Housing Sales Analysis: Applied regression models for market trend and price prediction analytics.

• AIML_Content Monetization Modeler: Built predictive models to optimize ad monetization and user engagement.

• AIML_Amazon Music Clustering: Applied unsupervised clustering to group user preferences and listening patterns.

• AIML_Multiclass Fish Image Classification: Trained CNN model for fish species classification with high accuracy.

Certifications

Certified Ethical Hacker (CEH) | Microsoft Certified Solutions Expert (MCSE) | Cisco Certified Network Associate (CCNA) | Red Hat Linux (RHL) | Fortinet NSE 1, 2, 3 | CompTIA Network+ | Digital Network Security

Education

Bachelor of Engineering – Mechatronics, Anna University, Coimbatore, TN (2020)

Community & Contributions

• Volunteer, OWASP Coimbatore & DEFCON India — conducted cybersecurity awareness and threat simulation sessions.
• Contributed to internal workshops on AI in Cybersecurity and security automation.
• Promoted cybersecurity awareness campaigns for employees and students.