Dhayanidhi S

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Summary

Software Engineering undergraduate specializing in Artificial Intelligence and Machine Learning with hands-on experience in Python automation, system scripting, and secure application development. Skilled in building clean, maintainable solutions across data, security, and software engineering domains.

Education

VIT Bhopal University, Bhopal, Madhya Pradesh, India — Jun 22 - Present
B.Tech in Artificial Intelligence and Machine Learning — CGPA - 8.34
ABS Vidhya Mandhir, Thiruvallur, Tamil Nadu — May 22
Senior Secondary Education — Percentage 74.8 %

Skills

- **Programming Languages:** Python, SQL, JavaScript, HTML, CSS
- **Software Engineering:** Object-Oriented Programming, Debugging, Code Optimization, Version Control (Git)
- **Automation & Scripting:** Python automation, log parsing, network monitoring scripts
- **Data & Analytics:** Data preprocessing, Exploratory Data Analysis, SQL-based data handling
- **Machine Learning:** Regression, Time Series Forecasting, LSTM, Model Evaluation
- **Operating Systems:** Linux, Windows
- **Security Fundamentals:** OWASP Top 10, Secure Coding Practices, Vulnerability Assessment
- **Security & Networking Tools:** Burp Suite, Nmap, Nessus, Wireshark, Scapy

Work Experience

Infosys Springboard Virtual Internship — Dec 25 - Present
- Gaining hands-on experience in data analytics, business intelligence, and industry-relevant problem-solving through guided projects and expert-led modules.
- Working with Python, SQL, and analytics tools to analyze datasets and derive actionable insights.
- Collaborating on real-world case studies aligned with enterprise-level business scenarios.

Auriseg Consulting Pvt. Ltd. — Nov 24 - Jan 25
Vulnerability Assessment and Penetration Testing Intern
- Designed and executed automated and manual security testing workflows to identify critical vulnerabilities and improve application security and production readiness.
- Conducted vulnerability assessments using Burp Suite, Nmap, and Nessus, uncovering high-risk issues aligned with OWASP Top 10 standards.
- Analyzed authentication, authorization, and input validation flaws, and implemented secure coding practices to reduce recurring vulnerabilities.

Projects

Smart Energy Consumption Analysis and Prediction using Machine Learning (Link) — Dec 25 - Present
- Built an end-to-end machine learning pipeline to analyze and predict household energy consumption from historical time-series data.
- Trained and evaluated an LSTM-based forecasting model to improve accuracy of future energy usage predictions.
- Generated device-level insights to support power optimization and reduction of energy wastage.

Maven Market Sales Analytics Dashboard (Link) — Jul 25 - Aug 25
- Developed Power BI dashboards using advanced DAX measures and SQL-based data preparation for sales, returns, and profitability analysis.
- Created interactive visuals including matrix tables, KPI cards, maps, treemaps, and gauges to identify key trends.
- Led stakeholder requirements gathering and delivered actionable, data-driven business insights.

Packet Sniffer using Python (Link) — Jul 25 - Aug 25
- Built a packet sniffer using Python, Scapy, Nmap, and Wireshark for TCP, UDP, and ICMP traffic monitoring.
- Established alerts for suspicious SYN scan activity and efficiently logged network traffic.
- Simulated network attacks to validate and demonstrate detection capabilities.

TKS FARMING – Frontend Website (Demo) — May 25 - Jun 25
- Developed a responsive e-commerce platform for farmers hosted on GitHub Pages.
- Integrated payment gateway and shopping cart functionality.
- Administered SQL database for efficient order and inventory tracking.

Certifications

- Machine Learning with Python (Coursera)
- Privacy & Security in Online Social Media (NPTEL)
- Power BI Data Analytics (Udemy)

Co-Curriculars

Gen AI Hackathon – Accenture
Solved 70+ Data Structures and Algorithms problems on GeeksforGeeks