Dhayanidhi S

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Summary

B.Tech CSE (AIML) undergraduate with strong foundation in Python and backend development. Experienced in building structured, database-driven applications with secure coding practices and REST-based architecture. Skilled in developing scalable backend logic, integrating SQL databases, and designing clean, maintainable systems.

Education

VIT Bhopal University, Bhopal, Madhya Pradesh, India	Jun 22 - Present
B.Tech CSE in Artificial Intelligence and Machine Learning	CGPA - 8.35
ABS Vidhya Mandhir, Thiruvallur, Tamil Nadu	May 22
Senior Secondary Education	Percentage 74.8 %

Skills

- **Programming Languages:** Python, SQL, JavaScript
- **Backend Development:** FastAPI, REST API Development, CRUD Operations, Request Validation, JSON Handling
- **Database Management:** MySQL, SQL Queries, Database Schema Design
- **Software Engineering:** Object-Oriented Programming (OOP), Debugging, Code Optimization, Version Control (Git)
- **Security Fundamentals:** OWASP Top 10, Secure Coding Practices, Input Validation
- **Tools:** Postman, Git, Linux, Burp Suite, Nmap

Work Experience

Auriseg Consulting Pvt. Ltd. — Nov 24 - Jan 25
Vulnerability Assessment and Penetration Testing Intern

- Performed vulnerability assessments and penetration testing to identify exposed risks and misconfigurations across web applications and systems.
- Conducted security testing using Burp Suite, Nmap, and Nessus, triaging high-risk findings aligned with OWASP Top 10.
- Analyzed authentication, authorization, and input validation flaws and recommended mitigations to reduce the digital attack surface.

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.

Projects

AI Web Vulnerability Scanner (Link ↗) — Jan 26 - Feb 26

- Developed a full-stack AI-powered vulnerability scanner using Python (Flask) and JavaScript.
- Implemented automated detection for common web vulnerabilities including SQL Injection and XSS.
- Integrated an AI-assisted risk classification engine to analyze detected vulnerabilities and generate structured security reports.

Smart Energy Consumption Analysis and Prediction using Machine Learning (Link ↗) — Dec 25 - Feb 26

- 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.

TKS FARMING – E-Commerce Backend Order Management System (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 ↗
- Power BI Data Analytics ↗
- Privacy Security in Online Social Media ↗

Co-Curriculars

Gen AI Hackathon (Accenture ↗)
Solved 100+ Data Structures and Algorithms problems on GeeksforGeeks ↗