

# Dhayanidhi S

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## Summary

Backend-focused B.Tech CSE (AIML) undergraduate skilled in developing RESTful APIs using **FastAPI** and Python with MySQL integration. Experienced in building scalable database-driven applications, implementing secure coding practices, and designing structured API architectures. Strong foundation in CRUD operations, request validation using Pydantic, and system optimization.

## Education

<b>VIT Bhopal University</b> , Bhopal, Madhya Pradesh	Jun 2022 – Present
B.Tech in Computer Science and Engineering (AIML)	CGPA: 8.35
<b>ABS Vidhya Mandhir, Thiruvallur, Tamil Nadu</b>	May 2022
Senior Secondary Education – 74.8%	

## Skills

- **Programming Languages:** Python, SQL
- **Backend Development:** FastAPI, RESTful API Development, CRUD Operations, Pydantic Validation, JSON Handling
- **Database:** MySQL, Database Schema Design, Query Optimization
- **Software Engineering:** OOP, Debugging, Code Optimization, Git Version Control
- **Security:** OWASP Top 10, Secure Coding Practices, Input Validation
- **Tools:** Postman, Git, Linux, Burp Suite, Nmap
- **Soft Skills:** Problem Solving, Analytical Thinking, Team Collaboration, Communication, Adaptability, Time Management

## Work Experience

<b>Infosys Springboard Virtual Internship</b>	Dec 2025 – Present
<i>AI Intern</i>	

- Applied Python and SQL for data analysis and business intelligence case studies.
- Performed data preprocessing, visualization, and extracted insights from structured datasets.
- Collaborated on enterprise problem-solving scenarios using analytical methodologies.

<b>Auriseg Consulting Pvt. Ltd.</b>	Nov 2024 – Jan 2025
<i>VAPT Intern</i>	

- Conducted vulnerability assessments and penetration testing on web applications and systems.
- Identified high-risk security issues using Burp Suite and Nmap, aligned with OWASP Top 10.
- Recommended mitigation strategies to strengthen authentication, authorization, and input validation mechanisms.

## Projects

<b>TKS FARMING – E-Commerce Backend Order Management System</b> ↗	May 2025 – Jun 2025
• Architected and implemented a backend order management system using <b>FastAPI</b> , Python, and MySQL.	

- Developed 6+ RESTful CRUD APIs for product, cart, and order processing modules.
- Integrated MySQL database with structured schema design for inventory and transaction tracking.
- Implemented request validation using Pydantic models and standardized JSON responses.

<b>AI Web Vulnerability Scanner</b> ↗	Jan 2026 – Feb 2026
• Engineered a full-stack AI-powered web vulnerability scanner using Python (Flask).	

- Automated detection of SQL Injection and Cross-Site Scripting (XSS) vulnerabilities.
- Designed a backend risk classification engine that generates structured JSON security reports.

<b>Smart Energy Consumption Analysis and Prediction</b> ↗	Dec 2025 – Feb 2026
• Constructed an end-to-end machine learning pipeline for time-series energy forecasting.	

- Trained and evaluated an LSTM-based deep learning model using RMSE and MAE metrics.
- Generated device-level insights to support energy optimization strategies.

<b>Maven Market Sales Analytics Dashboard</b> ↗	Jul 2025 – Aug 2025
• Designed SQL-based data transformation workflows for sales and profitability analysis.	

- Developed interactive Power BI dashboards using advanced DAX measures.
- Delivered actionable insights through KPI monitoring and trend visualization.

## 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 ↗