

# Dhayanidhi S

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## Summary

Final-year B.Tech (AI & ML) student with strong foundation in Data Science, Machine Learning, and Statistical Analysis. Experienced in building end-to-end ML pipelines, time-series forecasting using LSTM, and deriving actionable insights from structured datasets using Python and SQL. Seeking entry-level Data Scientist role to apply predictive modeling and analytical skills in real-world business problems.

## Education

<b>VIT Bhopal University</b> , Madhya Pradesh	Jun 2022 – Present
B.Tech in Computer Science and Engineering (AI & ML)	CGPA: 8.35

<b>ABS Vidhya Mandhir</b> , Tamil Nadu	May 2022
Senior Secondary Education	74.8%

## Technical Skills

- **Programming:** Python, SQL
- **Machine Learning:** Regression, Classification, Model Evaluation, Cross-Validation, Feature Engineering
- **Deep Learning:** LSTM, CNN, Time-Series Forecasting
- **Statistics:** Hypothesis Testing, Correlation Analysis, Performance Metrics (RMSE,  $R^2$ , SMAPE)
- **Libraries:** Pandas, NumPy, Scikit-learn, TensorFlow
- **Data Visualization:** Power BI, DAX
- **Databases:** MySQL
- **Tools:** Git, Linux

## Work Experience

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

- 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.

<b>Auriseq Consulting Pvt. Ltd.</b>	Nov 2024 - Jan 2025
<i>Vulnerability Assessment and Penetration Testing Intern</i>	

- Designed and executed automated and manual security testing workflows, identifying and remediating critical vulnerabilities to strengthen application security and ensure 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 and improve overall system stability.


## Projects

<b>Smart Energy Consumption Prediction (LSTM Time-Series Model)</b> 	Dec 2025 - Feb 2026
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- Built an end-to-end time-series forecasting pipeline using Python, performing data preprocessing, feature engineering, and sequence generation.
- Developed and trained an LSTM model using TensorFlow to predict household energy consumption.
- Evaluated model performance using RMSE,  $R^2$ , and SMAPE, generating insights for demand planning and energy optimization.




<b>Maven Market Sales Analytics Dashboard</b> 	Jul 2025 - Aug 2025
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- Performed data cleaning and transformation using Excel, Pandas, and SQL before dashboard creation.
- Built a data-driven analytics system using SQL and Power BI to analyze 10,000+ sales records.
- Led stakeholder requirements gathering, delivering actionable business insights.


<b>AI Web Vulnerability Scanner (AI-Based Classification Engine)</b> 	Jan 2026 - Feb 2026
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- Developed a Python-based application integrating rule-based vulnerability detection with AI-assisted risk classification.
- Implemented automated detection logic for common web vulnerabilities such as SQL Injection and XSS.
- Built a structured reporting pipeline to summarize detected vulnerability patterns and risk severity levels.

## Certifications

- Machine Learning with Python 
- Power BI Data Analytics 
- Privacy & Security in Online Social Media 

## Co-Curriculars

<b>Gen AI Hackathon</b> (Accenture 
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Solved 100+ Data Structures and Algorithms problems on GeeksforGeeks 