

# Devdatta Patil

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## Summary

Final-year Computer Science student at VIT focusing on Python, Machine Learning, and Web Development. Experienced in developing modular NLP and recommendation engine projects to solve technical challenges. Committed to applying core CS fundamentals and data-driven insights in a professional software development environment.

## Education

Vellore Institute of Technology

B.Tech in Computer Science Engineering | CGPA: 8.03 / 10

Oct 2022 – July 2026

Bhopal, MP

## Technical Skills

**Core CS:** Data Structures, Algorithms, OOP, DBMS, Operating Systems, Computer Networks

**Languages:** Python, Java, C#, SQL, JavaScript

**Web & APIs:** REST APIs, HTML, CSS

**ML & Data:** Data preprocessing, Feature engineering, Model evaluation

**Tools:** Git, GitHub, Linux CLI, Postman, VS Code

## Selected Projects

### Machine Learning Based Sentiment Analysis

[GitHub](#) | Tech Stack: Python, Scikit-Learn, Pandas, NLTK

- Spearheaded a comprehensive text processing pipeline that achieved **85% Accuracy** by utilizing advanced **TF-IDF vectorization** to transform unstructured data into high-dimensional numerical feature vectors.
- Optimized classifier performance by fine-tuning parameters and evaluating precision-recall curves for brand tracking.
- Automated review categorization for stakeholders, reducing analysis time by 40% using **NLP** techniques.

### E-Commerce Product Recommender System

[GitHub](#) | Tech Stack: Python, NumPy, Pandas, Scikit-Learn

- Pioneered a content-based filtering engine employing **Cosine Similarity** algorithms on large-scale product metadata to provide immediate, relevant item suggestions without requiring historical user interaction data.
- Streamlined data cleaning pipelines to maintain **95% Data Integrity** across high-volume structured datasets.
- Constructed a high-performance **Modular Architecture** that improved backend retrieval speeds by 30%.

### Personal Finance Management Application

[GitHub](#) | Tech Stack: JavaScript, HTML, CSS

- Developed a full-stack web application featuring a **Responsive UI** and interactive visualizations, enabling users to monitor income and expenditures across various categories through a dynamic, intuitive dashboard.
- Enforced complete **CRUD operations** with strict validation logic, reducing user data entry errors by 90%.
- Integrated local **Data Persistence** mechanisms to ensure financial data remains accessible across browser sessions.

## Experience

Sane Guruji Foundation (NGO)

Tech Volunteer (Hybrid)

June 2025 – Nov 2025

Jalgaon, Maharashtra

- Architected and overhauled website infrastructure while executing **security audits** to ensure data protection.
- Deployed custom automation scripts via Google Workspace API to digitize and synchronize member records.
- Boosted operational efficiency for **20+** members by eliminating manual administrative tasks by 30% weekly.

## Achievements

- Infosys HackWithInfy:** Selected as a **Top 750 participant** in a prestigious national coding competition.
- GSSoC'24 Contributor:** Selected as a contributor from a competitive pool of **50,000+ candidates**.
- 100 Days of Code Challenge:** Maintained a streak solving **algorithmic problems** for 100 consecutive days..

## Certifications

- NPTEL – Cloud Computing** | Distributed Systems, Virtualization, Cloud Service Models
- Oracle – AI Foundations Associate** | Machine Learning, Neural Networks, AI Lifecycle
- Oracle – Multi-Cloud Architect Professional** | IAM, Cloud Networking, Infrastructure Design