

# Prafulla Nile

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## PROFILE

Motivated **MCA student** with strong skills in **Python backend and full-stack development**, specializing in **Django, Flask, and FastAPI**. Experienced in building **scalable web applications** using **RESTful APIs, MVC architecture, secure authentication, and SQL/NoSQL databases**. Possess hands-on exposure to **AI/ML integration, data processing, and version control (Git)** through real-world projects. Seeking an opportunity to contribute technical expertise and grow as a **Backend or Full-Stack Developer**.

## EDUCATION

**MCA, Institute of Management Research and Development, Shirpur** 2024 – Present  
Expected Graduation: 2026 | **CGPA: 9.37**  
Relevant Coursework: Python, DBMS, Web Technologies, AI & ML, DevOps, and Blockchain Technology.

**BCA, KBC North Maharashtra University, Jalgaon** 2021 – 2024  
Graduated 2024 | **CGPA: 8.95**  
During my BCA, I gained strong programming skills in languages such as Python, Java, and C++. I also developed a solid understanding of web development technologies, including HTML, CSS, and JavaScript.

## SKILLS

**Programming & Concepts** – Python, Data Structures (Basics), OOPs

**Databases & ORM** – MySQL, SQLite3, MongoDB, SQLAlchemy

**Database Concepts** – Joins, Indexing, Normalization, Transactions

**Version Control tools** – Git, GitHub


**Web Development** – HTML, CSS, JavaScript

**Tools & Platforms** – Visual Studio Code, PyCharm, Jupyter Notebook


**Frameworks & Libraries** – Django, Flask, FastAPI, NumPy, Pandas, Matplotlib

**Soft Skills** – Leadership, Problem-Solving, Communication, Time Management, Adaptability


## TECHNICAL EXPERIENCE

**Blog Management Web Application, Python | Django | SQLite | ORM | Git | GitHub** 12/2025 – Present  
<https://github.com/prafullanile/blog-website> 

- Developed a **production-ready blog web application** using **Python and Django**, implementing **MVT architecture, REST-style views, user authentication (login/logout), role-based admin access, and multi-category blog management**.
- Utilized **Django ORM with SQLite database** to perform optimized **CRUD operations**, manage **relational data models**, apply **database normalization**, handle **migrations**, and ensure **data integrity and application performance**.
- Deployed the application on PythonAnywhere**, configuring **Django settings**, static files, and database migrations; implemented **security best practices** (CSRF protection, session handling, permissions) and used **Git & GitHub** for **version control, feature commits, and change tracking**.

**E-commerce Web App, Flask | SQLite3 | Python** 10/2025 – 11/2025  
[https://github.com/prafullanile/E\\_commerce\\_web](https://github.com/prafullanile/E_commerce_web) 


- Developed a **full-stack E-commerce web application** using **Flask and Jinja2**, following **MVC architecture**, with secure authentication, role-based dashboards, product catalog, cart, and checkout flow.
- Integrated **SQLite3 with SQLAlchemy ORM** to perform optimized **CRUD operations**, apply **normalization, SQL joins, indexing, and query optimization** for efficient data handling.
- Implemented **REST APIs, data validation**, session management, flash messaging, and secure authentication while maintaining clean code practices and **Git version control** for scalability and maintainability.
- Used Git-managed workflows and Linux-based local environments for development and testing.


**Movie Recommendation System, Flask | Python | Machine Learning | OMDb API** 05/2025 – 06/2025  
<https://github.com/prafullanile/movie-recommendation-sys> 


- Developed a **Flask-based recommendation system** using **TF-IDF feature engineering** and **cosine similarity** to suggest Hollywood, Bollywood, and web series content.
- Implemented **content-based filtering**, text preprocessing, and **optimized data processing** to improve recommendation accuracy and performance.
- Integrated **REST services** with the **OMDb API**, supported **ML model integration**, handled large-scale datasets (**5,000+ records**), and optimized application flow for an enhanced user experience.

## CERTIFICATES

Python for Beginners

SQL 

RDBMS PostgreSQL 

AI Engineer 

JavaScript 