

# ANURAG VERMA

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## Professional Summary

A **Software Engineer & Machine Learning Practitioner** with experience in **Python, Django, FastAPI, and Data Science**. Skilled in building **scalable web applications, APIs, and machine learning models**. Passionate about solving complex problems and continuously enhancing technical skills.

## Technical Skills

- **Programming Languages** : Python, JavaScript, Java, C
- **Backend Development** : FastAPI, Django, Flask, RESTful APIs
- **Databases** : PostgreSQL, MongoDB, MySQL
- **DevOps** : Git, Linux, Docker
- **Frontend Development** : HTML, CSS, Bootstrap, Tailwind CSS
- **Data Manipulation & Visualization** : Pandas, NumPy, Matplotlib, Seaborn, Plotly, Power BI
- **Machine Learning**: Scikit-Learn, Supervised & Unsupervised Learning, Neural Networks, Clustering (K-Means, DBSCAN, Hierarchical)

## Work Experience

GynoSakhi — Women’s Healthcare Platform Jul 2025 – Present

*Software Engineer (Jul 2025 – Present)*

- Developed and maintained a **full-stack admin panel** to manage 15+ healthcare modules, including Doctors, Bookings, Health Logs, Community Posts, and Notifications.
- Designed and optimized a **MySQL database schema** with 50+ tables, improving query performance and scalability.
- Implemented **role-based access control** for multi-level admin permissions.
- Built and integrated REST APIs for healthcare data management, enabling seamless communication with mobile applications.
- Created **Pytest-based automated tests** to ensure backend reliability and prevent regressions.
- Collaborated with cross-functional teams to integrate features with the **patient mobile app**.
- **Ongoing R&D**: AI-powered voice call assistant (Twilio + Dialogflow + Google TTS) for multilingual automated patient support.

Zefrokart — E-commerce Platform June 2024 – June 2025

*Software Developer*

- Developed and maintained a robust **admin panel** to manage all e-commerce operations, including product, order, and user management.
- Designed and optimized database schemas to efficiently store and manage product inventory, customer data, and sales records.
- Created and integrated management modules to handle product creation, editing, and deletion, as well as order processing and tracking.
- Built RESTful APIs to ensure seamless communication between the admin panel and the user-facing storefront.
- Implemented security measures to protect sensitive data and ensure a secure user experience.

## Key Projects

GynoSakhi Admin Panel — Role: Backend Developer

- **Technologies**: Python, Django, MySQL, Bootstrap, Tailwind, REST API, Plotly, Pytest
- Built a centralized platform for managing doctors, bookings, health tracking, content management, and notifications.
- Implemented advanced filtering, search, and reporting features for admin users.
- Designed & optimized MySQL database schema (50+ tables), improving query performance by ~30%.

Healthcare Data Analytics Dashboard — Role: Backend Developer

- **Technologies**: Python, Django, Plotly, Pandas, MySQL
- Created interactive charts and KPIs for patient activity, service utilization, and operational metrics.
- Enabled data-driven decision-making for management via visualized health trends.

AI Call Agent (Ongoing Research) — Role: Backend Developer & AI Integrator

- **Technologies**: Twilio, Google Dialogflow, Google TTS, Python Flask
- Designing a 24×7 multilingual voice assistant for patient queries, appointment bookings, and emergency routing.
- Planned features include sentiment analysis, call recording, and integration with the GynoSakhi mobile app.

## E-commerce Platform — Role: Software Developer

- **Technologies:** Python, Django, MySQL, HTML, CSS, JavaScript
- Developed and maintained a full-stack e-commerce website for jewelry sales, including product and customer order management.
- Created a comprehensive admin panel for efficient management of product listings, pricing, and order tracking.
- Utilized programming languages and a robust database system to handle all website information and ensure a seamless user experience.

## Internship

### Real Estate Marketplace

2 February 2024 – 10 June 2024

*Mongodb, EXPRESS.js, NODE.js, jwt, redux toolkit*

- Developed a feature-rich Real Estate Marketplace using the MERN stack, with a focus on seamless user experience and responsiveness using React for the frontend.
- Implemented JWT authentication for enhanced security and utilized Redux Toolkit for efficient state management, resulting in a robust and scalable application.
- web - <https://anurag-stack.onrender.com/>

## Personal Projects

### WaveTranscribe

July 2024 - August 2024

*FastAPI, Whisper AI, Matplotlib, PyAudio, Pydub*

- Developed a **speech-to-text converter** leveraging Whisper AI for accurate and efficient transcription.
- Created **RESTful APIs** using FastAPI to handle audio file uploads, real-time transcription, and data management.
- Implemented **audio visualization** using Matplotlib to display real-time audio waveforms.
- Integrated **audio input** and processing features using PyAudio and Pydub to capture and manipulate audio data.
- Optimized **performance** for real-time processing and ensured high-quality transcription output.

### Survey Application

June 2024 – July 2024

*FastAPI, PostgreSQL, Python*

- Designed and implemented a robust database schema using **PostgreSQL** to efficiently store and manage survey data.
- Developed **RESTful APIs** with **FastAPI** to handle survey creation, response submission, and result analysis.
- Ensured **data security** and integrity by implementing proper authentication and validation mechanisms.
- Collaborated closely with a teammate to integrate frontend functionalities and ensure seamless user interactions.

### Blog Application (Pen&Paper)

November 2023 – December 2023

*Django, HTML, CSS, Bootstrap*

- Developed specialized Django blog platform for admin-authored content.
- Implemented admin features for creating, editing, and deleting posts.
- Configured public access for users to read and comment.

## Education

### Dr. APJ Abdul Kalam Technical University (AKTU)

July 2022 – August 2024

*MCA-Computer Applications*

CGPA 7.92

### Veer Bahadur Singh Purvanchal University, Jaunpur

July 2018 – August-2021

*B.Sc (Math)*

54%

## Achievements

- I completed the **#100DaysOfCode** challenge, mastering Python and Advancing in Data Science.
- **5-Star** rating on HackerRank in Python, demonstrating advanced problem-solving skills.
- **4-Star** rating on HackerRank in C, demonstrating proficiency in C programming and algorithmic challenges.

## Certificates

- Python for Data Science - (IBM)
- Data Analysis Using Python - (IBM)
- Data Visualization Using Python - (IBM)
- Applied Data Science with Python - Level 2 - (IBM)
- Machine Learning with Python - Level 1 - (IBM)
- Python and Django Full Stack Web Developer Bootcamp - (Udemy)
- 100 Days of Code: The Complete Python Pro Bootcamp - (Udemy)