ANURAG VERMA

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Professional Summary

A **Software Engineerr & 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)