Vaishnavi Bandewar

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Contact

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Top Skills

- **Machine Learning** & Predictive Analytics
- **Big Data** Management & **SQL** Optimization
- Data Visualization
- Healthcare **Data Analytics** & **Clinical Research**

Certification

- **AI**, **ML**, and **Prompt Engineering** at **IIT Kanpur**

Achievements

- Best Performer: Data Analyst, Elevate Labs

Languages

- English
- Hindi

Hobbies

- Reading
- Writing
- Cooking

Skills

- **Python**, **TensorFlow**, Matplotlib
- Oracle, **MySQL**
- Windows, Linux, Shell Scripting
- **Git**, MS Office
- Web/App Development, Agile Methodology

Summary

- AI/ML engineer with hands-on experience in healthcare data analytics, machine learning model development, and AI-driven decision support systems for drug safety and adverse event detection.
- Strong expertise in predictive modeling, feature engineering, data pre-processing, model evaluation, and deployment-oriented analytics to solve complex data-intensive problems.

Professional Experience

Assistant Professor — Rajputana College, Bengaluru, India   Apr 2024 – May 2025

- Designed and delivered lectures integrating AI/ML concepts into applied engineering topics.
- Mentored students in academic projects and guided them on research methodologies.

Clinical Research & Data Management — Bengaluru, India Oct 2022 – Mar 2024

- Developed and maintained AI/ML-based applications adhering to SDLC standards, emphasizing TensorFlow and Agile methodologies.
- Improved machine learning model accuracy by 15% through advanced SQL programming and database operations using MySQL.
- Created reports and data visualizations using Python libraries like Pandas and Matplotlib to communicate actionable insights.

Key ML/AI Projects & Case Studies

Breaking Barriers (Sep 2024)

- Designed a MATLAB Simulink model for monitoring a child's bicycle ride, including live location tracking, speed monitoring, and fall detection with parental alerts.

Essentials of Generative AI & Prompt Engineering (Jan 2024)

- Participated in an AI-enhanced book club, exploring GPT models and prompt engineering techniques.

Other Projects

- Real-time credit card fraud detection system using machine learning techniques.
- Deep learning-based medical image classification using X-ray images for disease detection (e.g., pneumonia).
- AI-based breast cancer detection project using gold nanoparticle imaging data.
- Power BI sales performance dashboard showcasing KPIs, regional trends, and category-level insights.
- SQL-driven sales and customer data analysis using joins, aggregations, subqueries, and views to extract actionable business insights.

Education

PG Certification – AI, ML, and Prompt Engineering

- Indian Institute of Technology (IIT) Kanpur   Dec 2023 – Dec 2024

B.Tech – Chemical Engineering

- Indore Institute of Engineering and Science, Indore, India Jun 2018 – May 2022