

URVASHI VANKAR

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Vadodara, Gujarat, India

OBJECTIVE

AI and Machine Learning Engineer with strong expertise in Python, machine learning, deep learning, and generative AI. Experienced in building, training, evaluating, and deploying intelligent systems using real-world datasets. Passionate about developing scalable AI solutions and applying ML models to solve complex problems.

EDUCATION

- **Parul University** 2023 – 2026
B.Tech in Computer Science and Engineering (CGPA: 8.0) Vadodara, India
- **Parul University** 2020 – 2023
Diploma in Computer Science and Engineering (CGPA: 8.0) Vadodara, India

AI & MACHINE LEARNING PROJECTS

- **Brain Tumor Detection System** 2025
Python, TensorFlow, CNN, Transfer Learning
 - Designed and trained CNN-based deep learning models for MRI image classification.
 - Achieved 95% accuracy using data augmentation and transfer learning.
 - Evaluated models using precision, recall, F1-score, and confusion matrix.
- **Aqua Guardian – AI-Based Pollution Monitoring** 2025
Python, Scikit-learn, ML, APIs
 - Built ML models to classify pollution levels from sensor and image data.
 - Implemented automated data preprocessing and feature engineering pipelines.
 - Enabled data-driven insights for environmental monitoring systems.
- **Generative AI News & Productivity Agent** 2025
LLMs, Prompt Engineering, n8n, APIs
 - Developed LLM-powered agents to summarize, classify, and prioritize information.
 - Integrated automation workflows for scheduled execution and email delivery.
 - Optimized prompts for accuracy, relevance, and reduced hallucinations.
- **Amazon Sales Forecasting Model** 2025
Python, Pandas, Scikit-learn
 - Built regression and time-series models to forecast product sales.
 - Performed feature selection and hyperparameter tuning.
 - Evaluated performance using RMSE and cross-validation.

TECHNICAL SKILLS

- **Programming:** Python, SQL
- **Machine Learning:** Supervised & Unsupervised Learning, Feature Engineering, Model Evaluation
- **Deep Learning:** CNNs, Transfer Learning, TensorFlow, Keras
- **Generative AI:** LLMs, Prompt Engineering, RAG, AI Agents
- **Data Processing:** Pandas, NumPy, Data Cleaning, EDA
- **Model Deployment:** FastAPI, Streamlit, REST APIs
- **Tools & Platforms:** Git, GitHub, Jupyter Notebook, Power BI, n8n
- **Cloud Basics:** AWS, IBM Cloud

CERTIFICATIONS

• IBM Python for Data Science	<i>2024</i>
• IBM Getting Started with AI	<i>2024</i>
• IBM Large Language Models	<i>2024</i>
• AWS Academy Graduate Cloud Foundations	<i>2025</i>
• Deloitte (Forage) Data Analytics Virtual Internship	<i>2024</i>
• NPTEL (IIT) Theory of Computation	<i>2024</i>

ADDITIONAL INFORMATION

Languages: English, Hindi, Gujarati