

# Vineet Patel

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Portfolio: [vineet416.github.io](https://vineet416.github.io)

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## Objective

Passionate and result-driven Data Scientist with a strong foundation in Generative AI, Machine Learning, Statistics, and NLP. Skilled in developing and deploying AI/ML solutions using ML, LLMs, RAG, and Agentic AI. Seeking an opportunity to contribute and grow in an innovative AI-driven organization.

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## Education

**Bachelor of Science (BS/B. Sc) in Applied AI and Data Science**

Indian Institute of Technology (IIT) Jodhpur, India | Expected 2027

**Diploma in Electrical Engineering**

Veermata Jijabai Technological Institute (VJTI) Mumbai, India | 2021

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## Skills

- **Programming:** Python, SQL, Pandas, NumPy, Scikit-Learn, XGBoost, TensorFlow, Hugging face, LangChain, LangGraph, CrewAI, OpenAI
  - **AI/ML:** Supervised & Unsupervised ML, Feature Engineering, Model Evaluation, Hyperparameter Tuning, Generative AI, Chunking, Embedding, LLMs, RAG, Agentic AI, Prompt Engineering
  - **Vector Search & Database:** Pinecone, FAISS, Chroma, MySQL, MongoDB
  - **Data Analysis & BI:** EDA, Statistical Analysis, Data Wrangling, Power BI, Matplotlib, Seaborn
  - **Cloud & Deployment:** AWS (EC2, ECR), Docker, FastAPI, GIT, GitHub Actions (CI/CD), Streamlit
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## Internships & Experience

**AI Engineer Intern – Euron, Remote (Nov 2025 – Dec 2025)**

- Architected a **Retrieval-Augmented Generation (RAG)** using **LangChain**, **vector embeddings** and **custom prompts** to deliver verifiable, context-aware AI responses and improved trustworthiness.
- Developed and deployed scalable **FastAPI/Streamlit app** on **AWS (EC2, ECR)** using **Docker** and **GitHub Actions CI/CD automation**.
- Integrated **Pinecone Vector DB** to implement high-dimensional **semantic search**, enhancing the relevance of retrieved context for RAG and **reducing hallucination** rates.

**Project Coordinator Trainee – SunShare Energy LLP, Pune (Apr 2022 – Aug 2022)**

- Orchestrated **cross-functional technical workflows** between **engineering**, **supply chain**, and **regulatory bodies**, ensuring **100% compliance** with complex project guidelines.
  - Optimized **solar asset performance & project ROI** by identifying **performance anomalies** in generation data and translating complex technical metrics into **actionable insights** for stakeholders.
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# Relevant Projects

## 1. Credit Card Default Prediction | [Project Link](#)

- Engineered an **end-to-end ML pipeline** using **XGBoost**, and **Random Forest** achieving a **76% ROC-AUC** through systematic **hyperparameter tuning**.
- Mitigated severe class imbalance using **SMOTE** and **feature selection**, nearly tripling the model's recall from **19% to 52%**, significantly improving **high-risk defaulter detection**.
- Deployed an interactive Streamlit application for **real-time default risk prediction**, empowering stakeholders to **interpret model outputs** and assess risk scenarios.

## 2. Telecom Customer Churn Analytics & Retention Strategy | [Project Link](#)

- Analyzed **7,000+ records** using **SQL** to identify **key churn drivers**, quantifying a **~\$139k monthly recurring revenue (MMR) loss**.
  - Developed a **Power BI dashboard** to visualize **high-risk customer segments** and surface key churn drivers for **data-driven retention strategies**.
  - Leveraged **Python** to transform raw data into **targeted pricing recommendations** and **actionable retention strategies** to address customer pain points.
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# Achievements & Certifications

- Complete Data Science, Machine Learning, DL, NLP Bootcamp – Udemy | [View Certificate](#)
- Data Analytics Course – Physics Wallah Skills | [View Certificate](#)
- Python Basics – HackerRank Skills Test | [View Certificate](#)
- SQL Advanced – HackerRank Skills Test | [View Certificate](#)