

# Vijay Takbhate

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## TECHNICAL SKILLS

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**Programming:** Python, Flask, SQL (MySQL), Streamlit

**AI / LLM & Frameworks:** Langchain, LLM Orchestration, Langgraph, GPT Models (e.g., GPT-3.5/4), Prompt Engineering

**MLOps Tools:** MLflow, DVC, DagsHub, Docker, GitHub Actions (CI/CD)

**Data Engineering:** Databricks, PySpark, Metabase, Kubernetes

**Cloud & Orchestration:** AWS, AWS Lambda, GCP

## EXPERIENCE

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### InCred Financial Services

Dec 2024 – Present

*Mumbai, Maharashtra*

*Risk Analyst (MLOps & Data Engineering Focus)*

- Led policy design and deployment within the **Business Rule Engine (BRE)** production system, ensuring compliance and seamless integration with risk workflows.
- Developed a custom Python package, **Simulator**, to validate policy implementation—cutting verification time by **30%** and reducing code complexity by **50%**.
- Implemented **CI/CD pipelines** using **GitHub Actions** for automated builds, testing, and deployment of Simulator and policy updates into production.
- **Skills:** Python, GitHub Actions (CI/CD), Databricks, Metabase, SQL, Git, Excel

### Fox Solutions Pvt. Ltd.

Feb 2024 – Oct 2024

*Automation Engineer (Intern → Full-time)*

*Pune & Nashik, Maharashtra*

- Developed and deployed robust **automation pipelines** to enhance reproducibility, monitoring, and reduce manual intervention across production lines.
- Applied **reliability engineering, version control, and system monitoring** practices to ensure stable and scalable automation systems.
- **Skills:** Pipeline Automation, Monitoring Systems, Version Control, PLC/SCADA Tools

## PROJECTS

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### AI-Powered Portfolio & Resume Assistant for HR

Oct 2025

- Developed an **AI-integrated portfolio system** enabling recruiters to conduct **virtual HR interviews** using **LangChain** and **GPT-5-mini**.
- Implemented a **multi-LLM pipeline** for dynamic question categorization, contextual response generation, and validation.
- Deployed the application via **Flask + Docker + AWS EC2**, integrating **MLflow** for experiment tracking and **GitHub Actions (CI/CD)** for automation.
- **Tech Stack:** Python, Flask, LangChain, GPT-5-mini, MLflow, Docker, AWS EC2
- **Live Demo:** [Portfolio Demo](#) — **GitHub:** [Repository](#)

### Medical Insurance Cost Prediction (SVR Model)

Sep 2025

- Built an **SVR-based regression model** achieving **R<sup>2</sup>: 0.86** and **MAE: 0.034** for medical cost prediction.

- Developed a **Flask web application**, containerized with **Docker**, and deployed on **AWS EC2**.
- Implemented key **MLOps components** including **MLflow tracking**, automated CI/CD pipelines, and **Kubeflow** integration.
- **Tech Stack:** Python, Flask, Docker, MLflow, Kubeflow, AWS EC2
- **GitHub:** [Repository](#)

## CERTIFICATIONS

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### Complete MLOps Bootcamp with 10+ Projects

Udemy — July 2025

- Applied course learnings to build **end-to-end MLOps pipelines** (CI/CD, experiment tracking, deployment), e.g., [Insurance Cost Prediction](#).

### MLOps Bootcamp: Mastering AI Operations

Udemy — Jun 2024

- Implemented the **MLOps lifecycle** using Flask + MLflow, deploying ML models, e.g., [Loan Eligibility Prediction](#).

## EDUCATION

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### SVERI's College of Engineering

*Bachelor of Technology & Diploma in Electronics and Telecommunication*

Pandharpur, Maharashtra

*Graduated: May 2024 & May 2021*

- Completed **B.Tech.** with **81.71%** and **Diploma** with **91.73%**.
- Focused on electronics, signal processing, and communication systems, applied in AI/ML and data-driven projects
- Engaged in hands-on projects bridging electronics with AI, machine learning, and software deployment.

## BLOGGING

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### Supervised, Unsupervised, & Beyond: ML Techniques Simplified

[LinkedIn Article](#)

- Simplified core ML paradigms (supervised, unsupervised, semi-supervised, online/offline learning) with real-world examples.
- Used relatable cases like spam filtering, clustering, and pseudo-labeling to make ML accessible for beginners.

### Comprehensive Docker Guide

[Containerizing Flask Applications](#)

- Published a hands-on guide covering Docker fundamentals (Dockerfile, images, containers) for ML practitioners.
- Demonstrated containerizing and deploying Flask ML apps, with practical steps for building, running, and scaling.

## LANGUAGES

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**English**

**Marathi**

**Hindi**

## SOFT SKILLS

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Critical Thinking

Intellectual Rigor

Problem Solving

Understanding Business Needs