Nayan Darokar

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Technical Skills

Languages & Database:	Python, SQL, PostgreSQL
Machine Learning & AI:	Scikit-learn, XGBoost, LightGBM, TensorFlow, PyTorch, NLP (NLTK, Sentence Transformers)
Data Processing & Visualization:	Pandas, NumPy, Matplotlib, Seaborn, Plotly
ML Engineering & MLOps:	Config-driven ML pipelines (YAML), Feature preprocessing, Model evaluation, Hyperparameter tuning, Experiment tracking, Model serialization (Pickle, Joblib)
Frameworks & Tools:	Flask, Streamlit, Git, GitHub, Docker (basic), VS Code, Jupyter

Projects

RiskFlow v2.0 — Customer Churn Intelligence Platform

- Designed an end-to-end **production-styled churn prediction system** using structured banking data
- Built a **config-driven ML pipeline** with preprocessing, model inference, and evaluation isolated from UI logic
- Implemented probability-based risk scoring with interpretable outputs and controlled inference flow
- Optimized inference using Gradient Boosting to meet strict memory and latency constraints
- Deployed an enterprise-styled analytical console simulating real-world decision-support systems
- **Code:** GitHub (on request / limited access) Docs
- **Live App**: https://riskflow.onrender.com

VectorCine AI — Vector Similarity–Based Recommendation Engine

- Developed a **content-based movie recommendation engine** using vector embeddings and cosine similarity
- Precomputed and served high-dimensional similarity vectors for low-latency interactive inference
- Designed a system-oriented interface emphasizing observability, trust, and controlled user interaction
- Addressed real deployment constraints by transparently handling large ML artifacts and memory limits
- Architected the system to support future embedding upgrades without interface changes
- Implemented IDE-inspired ghost autocomplete to reduce query friction and input errors during similarity search
- **Code:** GitHub (on request / limited access) **Docs**

Certificates

- **Data Science, ML, DL & NLP Bootcamp – Krish Naik (Udemy)**: Learned data preprocessing, model building, evaluation, and deployment using Python, Scikit-learn, TensorFlow, and NLP techniques. View Certificate
- **SQL Intermediate HackerRank:** Gained proficiency in complex queries, joins, subqueries, and data filtering. View Certificate
- **Python Machine Learning:** From Beginner to Pro (Udemy): Built ML models using supervised & unsupervised learning with Python. View Certificate

Education

ACEM Savitribai Phule University — **Aug 2020 – Sep 2024**

B.Tech (Computer Science Engineering) — Pune, Maharashtra