

# NACHIKET BHAGAJI SHINDE

## AI Developer — Machine Learning Engineer

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### Summary

AI Developer proficient in building intelligent ML and deep learning systems, specializing in vector search, model optimization, and generative AI applications. Strong expertise in Python, TensorFlow, PyTorch, and modern NLP pipelines. Passionate about leveraging AI to solve real-world challenges and contributing to innovative, research-driven environments.

### Skills

**Programming:** Python, Java, C/C++

**Machine Learning:** Scikit-learn, TensorFlow, PyTorch, Deep Learning, Neural Networks

**Generative AI & NLP:** LangChain, LLMs, RAG, Embeddings, Conversational AI

**Tools & Frameworks:** Flask, FastAPI, Django, Docker, Git, Streaming, Postman

**Databases:** PostgreSQL, MongoDB, SQLite, Qdrant

**Soft Skills:** Problem Solving, Team Collaboration, Research, Leadership

### Experience

#### Software Developer

June 2025 – Present

*Mountreach Solutions (Remote)*

- Enhanced RAG pipeline retrieval precision by **30%** through optimized vector embeddings.
- Implemented modular ML pipelines for experimentation, preprocessing, and performance tuning.
- Built scalable REST API layers using FastAPI to integrate AI and data services seamlessly.
- Engineered a vector-based chatbot to automate responses, reducing manual support by **70%**.

### Projects

#### Arjuna – AI Chatbot (GenAI + RAG) | Flask, Qdrant, LangChain

2025

- Developed an AI-driven chatbot to provide contextual academic responses to faculty and students.
- Integrated LangChain + Qdrant achieving **80%** higher semantic retrieval quality.
- Built REST APIs supporting multi-threaded, low-latency query processing.

#### PyCodeML – Auto ML Recommender | Python, Scikit-learn

2025

- Designed an automated ML library for model comparison, selection, and evaluation.
- Boosted predictive accuracy by **40%** using grid-based hyperparameter optimization.
- Created configurable workflows supporting regression and classification pipelines.

#### Sentify – Real-Time Emotion Detection | DeepFace, OpenCV, Flask

2024

- Engineered real-time emotion detection using DeepFace embeddings and video insights.
- Optimized video frame inference, improving identification speed and detection accuracy.
- Integrated flexible API endpoints enabling live predictions and client-side visualization.

### Achievements

- **NPTEL Discipline Star** — Recognized by IIT Bombay for consistent academic distinction.
- *"PyCodeML: Automated ML Model Selection Framework"* published at NCISET 2025.

### Certifications

- **NPTEL – IIT Kharagpur:** DBMS, C Programming, Java, Compiler Design.
- **NPTEL – IIT Madras:** Design and Analysis of Algorithms (Top 2% in NPTEL exam).

### Education

#### B.Tech. in Computer Science and Engineering

Aug 2022 – June 2026

*CSMSS Chhatrapati Shahu College of Engineering, Sambhajinagar*

CGPA: 7.53 / 10