

# NACHIKET BHAGAJI SHINDE

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## Summary

AI/ML and Data Science Engineer with hands-on experience in Machine Learning, Deep Learning, Generative AI, NLP, and data analytics. Skilled in building RAG pipelines, scalable ML workflows, and real-time inference systems. Strong foundation in Python, model optimization, data engineering, and backend API integration. Dedicated to creating reliable, efficient, and production-ready AI solutions for real-world use cases.

## Skills

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

**Machine Learning:** Regression, Classification, Feature Engineering, AutoML, Model Optimization

**Deep Learning:** Neural Networks, CNNs, Embeddings, Computer Vision (OpenCV, DeepFace)

**Generative AI:** LLMs, RAG, LangChain, LangGraph, Qdrant, Prompt Engineering

**Data Science:** EDA, SQL, Power BI, Statistical Modeling, Data Cleaning

**Frameworks:** Flask, FastAPI, Django, Streamlit

**Tools:** Docker, Git, Postman, Jupyter Notebook, N8N

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

## Experience

### Software Developer — AI/ML

June 2025 – Present

*Mountreach Solutions (Remote)*

- Enhanced RAG retrieval performance by **30%** through embedding-based optimization and hybrid filtering strategies.
- Engineered ML and DL pipelines for preprocessing, feature engineering, experimentation, and performance evaluation.
- Built scalable FastAPI REST services enabling deployment of ML, Deep Learning, and Generative AI models.
- Developed a vector-search assistant that reduced manual staff queries by **70%**, significantly improving efficiency.

## Projects

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

2025

- Engineered a context-aware chatbot using RAG + Qdrant, achieving **80%** higher semantic accuracy.
- Implemented metadata-driven filtering and hybrid retrieval, ensuring consistent and hallucination-resistant responses.
- Designed optimized backend APIs supporting real-time academic and administrative interactions.

### PyCodeML – AutoML Model Selector (PyPI) | Python, Scikit-learn

2024

- Created an AutoML engine for ranking, tuning, and comparing machine learning models across multiple datasets.
- Improved predictive accuracy by **40%** using advanced hyperparameter optimization and systematic cross-validation.
- Released as a PyPI library featuring modular and scalable APIs for reproducible ML experimentation.

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

2024

- Built a real-time emotion recognition system using DeepFace embeddings and optimized facial detection workflows.
- Reduced inference latency through enhanced frame preprocessing, classification flow, and efficient feedback pipelines.
- Integrated real-time streaming APIs delivering accurate performance across diverse environments and lighting conditions.

## Achievements

- **NPTEL Discipline Star** — Recognized for consistent excellence across multiple IIT-certified technical courses.
- Presented research paper: “*PyCodeML: Automated ML Model Selection Framework*” at NCISET 2025.

## Certifications

**NPTEL – IIT Kharagpur:** DBMS, C Programming, Java, Compiler Design

**NPTEL – IIT Madras:** Design and Analysis of Algorithms (Top Performer)

## Education

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

Aug 2022 – June 2026

*CSMSS Chh. Shahu College of Engineering, Chh. Sambhajinagar*

CGPA: 7.53 / 10