

# Nachiket Bhagaji Shinde

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## Professional Summary

AI/ML Developer skilled in building intelligent applications using Python, Machine Learning, and Deep Learning. Strong in data preprocessing, model training, NLP, Computer Vision, LLMs, and integrating AI features into backend systems.

## Technical Skills

**Languages:** Python, Java, C

**AI/ML & Deep Learning:** Scikit-learn, TensorFlow, NumPy, Pandas, LLMs, RAG, NLP, Computer Vision

**Frameworks & Libraries:** Flask, FastAPI, LangChain, LangGraph, Django

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

**Tools:** Git, GitHub, Docker, Postman, Jira

## Experience

### AI Developer — Mountreach Solutions

June 2025 – Present

- Improved GenAI accuracy by optimizing RAG pipeline, embeddings, and prompt instructions.
- Built ML pipelines for data preprocessing, training, and evaluation to streamline experimentation.
- Developed backend APIs using Flask/FastAPI to integrate AI models with secure authentication.

## Projects

### Arjuna – AI-Powered College Chatbot

GitHub Repo

- Developed an autonomous chatbot using LangGraph + Gemini API for academic/admin queries.
- Integrated Qdrant vector search improving answer accuracy and reducing response time.
- Improved student query resolution efficiency by **80%**.

### PyCodeML – Automated ML Model Selector (Published on PyPI)

PyPI Package

- Published Python package that auto-trains ML models and recommends the best model.
- Supports regression and classification with hyperparameter tuning.
- Added CI/CD pipeline and public documentation.

### Facial Recognition-Based Voting System

GitHub Repo

- Built a secure voting system using real-time facial recognition for voter authentication.
- Designed dual panels: Admin for election management and Voter for facial-based authentication and voting.
- Prevented duplicate voting using DeepFace-based identity verification pipeline.

## Education

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

CGPA: 7.53/10

B.Tech. in Computer Science and Engineering (DBATU)

2022–26

### Prabhat Secondary and Higher Secondary School, Nidhona

79.67%

HSC (Maharashtra State Board)

2021–22

### Shri Sant Savta Gurukul, Phulambri

87.60%

SSC (Maharashtra State Board)

2019–20

## Certifications

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

View Certificates

### NPTEL – IIT Madras: Design and Analysis of Algorithms

View Certificate

## Achievements

- **NPTEL Discipline Star (IIT Certified)** awarded for high academic performance across multiple courses.
- Research paper accepted — *"PyCodeML: Automated Machine Learning Model Selection Framework"* (NCISET 2025).