Nachiket Bhagaji Shinde

AI Developer

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Summary

AI Developer skilled in Machine Learning, Deep Learning, and Generative AI. Experienced with Python, RAG pipelines, vector databases, and end-to-end model development. Focused on building scalable, efficient, and production-ready AI solutions for real-world applications.

Skills

Programming: Python, Java, C/C++
Machine Learning: Scikit-Learn, TensorFlow, PyTorch, NumPy, Pandas
Generative AI: RAG, LLMs, LangChain, Embeddings, Vector Search
Computer Vision: OpenCV, DeepFace
Frameworks & Tools: FastAPI, Flask, Django, Streamlit, Git, Docker, Postman
Databases: MongoDB, PostgreSQL, MySQL, SQLite, Qdrant

Experience

Software Developer **June 2025 – Present**
Mountreach Solutions (Remote) *Tech: Python, FastAPI, PyTorch, Qdrant*

- Enhanced RAG pipelines by improving embedding retrieval and vector search, increasing response accuracy by **30%**.
- Built complete ML workflows for preprocessing, feature extraction, experimentation, and evaluation.
- Developed scalable REST APIs using FastAPI to deploy ML and Generative AI services.
- Created a vector-search assistant that reduced manual query handling by **70%**.

Projects

Arjuna – AI College Chatbot (GenAI + RAG) | *Flask, LangChain, Qdrant* **Link**

- Built a context-aware assistant using RAG with Qdrant semantic search, achieving **80% higher relevance**.
- Designed prompt-chaining workflows with metadata filtering and hybrid retrieval.
- Implemented automated evaluation to measure accuracy, coherence, and hallucination reduction.

PyCodeML – Automated ML Model Recommender | *Python, Scikit-Learn* **Link**

- Built an AutoML engine for model selection, scoring, and comparison across datasets.
- Improved predictive performance by **40%** through grid-search optimization with cross-validation.
- Designed modular ML pipelines with configuration support and performance dashboards.

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

- Engineered a real-time emotion detection system using DeepFace embeddings with low-latency processing.
- Implemented robust classification supporting multi-face, low-light, and partial-face environments.
- Integrated face tracking with dynamic visual feedback for smooth emotional transitions.

Achievements

NPTEL Discipline Star awarded by IIT Bombay for academic excellence.
Published research: *"PyCodeML: Automated ML Model Selection Framework"* at NCISET 2025.

Certifications

NPTEL – DBMS, C Programming, Java, Compiler Design
NPTEL – Design and Analysis of Algorithms

Education

B.Tech. in Computer Science and Engineering **2022 – 2026**
CSMSS Chh. Shahu College of Engineering, Chh. Sambhajinagar *CGPA: 7.53 / 10*