Nachiket Bhagaji Shinde

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Summary

AI Evaluation–focused developer with hands-on experience in analyzing, evaluating, and improving Machine Learning and Generative AI systems. Skilled in AI output evaluation, hallucination analysis, response quality assessment, and RAG-based model validation. Strong foundation in Python, ML experimentation, and research-driven AI workflows with a clear interest in AI alignment, multi-modal evaluation, and human-in-the-loop learning systems.

Skills

Programming: Python, Java, C/C++
AI & ML: Scikit-learn, TensorFlow, PyTorch, Model Evaluation, ML Experimentation
Generative AI & Evaluation: LLMs, RAG, Prompt Analysis, Output Evaluation, LangChain, LangGraph, Qdrant
Tools & Frameworks: FastAPI, Flask, n8n, Docker, Git, Postman
Databases: MongoDB, PostgreSQL, MySQL, SQLite, Qdrant

Experience

Software Developer (AI/ML) — June 2025 – Present
Mountreach Solutions (Remote)

- Evaluated AI and LLM outputs for accuracy, coherence, and hallucination reduction across RAG-based systems.
- Improved retrieval quality by **30%** through embedding optimization and hybrid search strategies.
- Built structured ML experimentation pipelines for model comparison and performance validation.
- Developed scalable FastAPI services to deploy and monitor ML and GenAI workflows.
- Implemented vector-search assistants reducing manual query resolution by **70%**.

Projects

Arjuna – AI Evaluation–Driven College Chatbot (GenAI + RAG) | Flask, Qdrant, LangGraph — 2025
- Built a RAG-based chatbot with systematic evaluation of response relevance, factual grounding, and coherence.
- Designed evaluation workflows to measure hallucination frequency and answer consistency.
- Improved contextual accuracy by **80%** using metadata filtering and hybrid retrieval.

Automated GenAI Content Generation & Output Validation Pipeline | Gemini, n8n, Google Sheets — 2025
- Built an automated GenAI pipeline to generate multiple long-form and short-form scripts in a single workflow.
- Implemented output validation logic to detect malformed, incomplete, or inconsistent LLM responses.
- Designed regex-based parsers to normalize and clean AI-generated outputs, ensuring **100%** structured data.
- Enabled scalable review and comparison of AI-generated content by storing validated outputs in Google Sheets.

PyCodeML – Automated ML Model Evaluation & Selection Framework | Python, Scikit-learn — 2024
- Developed an AutoML framework to train, evaluate, and rank ML models using multiple performance metrics.
- Improved predictive performance by **40%** using grid-search hyperparameter tuning.
- Published as a PyPI package enabling reproducible ML evaluation workflows.

Certifications

NPTEL – IIT Kharagpur: DBMS, C Programming, Java, Compiler Design
NPTEL – IIT Madras: Design and Analysis of Algorithms

Achievements

- **NPTEL Discipline Star** — Awarded by IIT Bombay for consistent academic excellence.

- Research Publication: *"PyCodeML: Automated ML Model Selection Framework"* — NCISET 2025.

Education

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