

Shreyash Daware

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SUMMARY

AI/ML & Data Science student building production-grade AI systems, RAG pipelines, and scalable backends. Proficient in Python, FastAPI, PostgreSQL, and vector databases, with expertise in hybrid search, LLM integration, and delivering reliable data-driven solutions.

PROFESSIONAL EXPERIENCE

AI/ML Intern — xLogia Tech

Feb–Mar 2026

Python, TensorFlow, OpenCV, YOLOv8, Scikit-learn, Data Preprocessing

- Developed a YOLOv8 wildlife detection pipeline on a **10,000+ image dataset**, achieving **80% mAP50** across 19 classes.
- Integrated ByteTrack multi-object tracking, reducing duplicate counts by **70%** for enhanced data reliability.
- Optimized video processing to **40–50 FPS**, improving performance by **30%** in low-quality environments.

PROJECTS

Enterprise RAG Platform — Document Intelligence & Vector Search

Jul 2026

Python, FastAPI, LangChain, Qdrant, Ollama, Hybrid Search, FastEmbed, SSE

- Architected a modular enterprise RAG backend (FastAPI) for document ingestion and context-aware responses.
- Engineered an end-to-end pipeline covering PDF parsing, chunking, embedding generation, and vector indexing.
- Implemented Qdrant Hybrid Search (Dense + BM25) using RRF and reranking for optimized retrieval relevance.
- Developed conversational features including streaming responses (SSE), source citations, chat history, and query rewriting.
- Designed an evaluation framework to benchmark retrieval accuracy, latency, and generation quality.
- Adopted production-grade standards including modular design, dependency injection, and comprehensive testing (Ruff, MyPy, Pytest).

FarmVichar — AI-Driven Agricultural Platform

Sep 2025

Python, FastAPI, Firebase, React Native, Predictive Modeling, SQL

- Developed a cross-platform mobile app using React Native, integrating predictive models for commodity price forecasting and a multilingual AI-powered chat interface for real-time agricultural guidance.
- Managed structured and relational data storage using Firebase NoSQL and SQL databases.

Cureify — AI Healthcare Web App | PBL Project

Python, Flask, Google Gemini API, Next.js, MySQL, Data Visualization

- Built AI diagnostic assistant analyzing X-rays, MRIs, and skin conditions.
- Designed MySQL database schema for storing and querying structured medical records.
- Implemented iterative data-driven follow-up questioning to refine diagnosis accuracy.

EDUCATION

M.M College of Engineering, Pune, Maharashtra

B.E in Artificial Intelligence & Data Science — **9.42 CGPA**

TECHNICAL SKILLS

- Machine Learning & AI:** RAG, Semantic/Hybrid Search, Vector Embeddings, Re-ranking, Prompt Engineering, LLM Integration (Ollama), LangChain, Hugging Face, Transformers.
- Data Science & Viz:** Document Processing, Chunking, Retrieval Evaluation, Benchmarking, Matplotlib, Seaborn, Plotly.
- Programming:** Python (NumPy, Pandas, TensorFlow, Scikit-learn), JavaScript/TypeScript, SQL, C++.
- Backend & Databases:** FastAPI, REST APIs, Qdrant (Vector DB), PostgreSQL, MySQL, Firebase, SQLAlchemy, Alembic.
- Tools & Platforms:** Git, GitHub, Docker Compose, Google Cloud (Gemini API), Ruff, MyPy, Pytest.

CERTIFICATIONS

- [Claude Platform 101](#) : Successfully completed certification

ACHIEVEMENTS

- 1st Place — Poster Presentation, Pi Day, SPPU
- Consolation Prize — Internal Smart India Hackathon (SIH) 2025

LEADERSHIP

- **Coordinator, Udaan** — Managed student project showcase logistics and evaluators.
- **Treasurer, NEURA Technical Club** — Organized the coding events. Set the MCQs for various technical events.