

AMARJIT JHA | AI / ML ENGINEER & DATA SCIENTIST

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EDUCATION

Ajeenkya DY Patil University

Aug 2025 – May 2027

Master of Computer Applications (MCA) - Data Science & Analytics — CGPA: 8.1/10

Pune, India

Coursework: Machine Learning, MLOps, Generative AI, RAG Systems, Agentic AI, Data Analytics

St. Edmunds' College

Jun 2021 – May 2024

Bachelor of Computer Applications (BCA) — CGPA: 7.4/10

Shillong, India

Coursework: Data Structures & Algorithms, Database Management Systems,

Object-Oriented Programming, Software Engineering

TECHNICAL SKILLS

Programming & Core: Python, SQL (PostgreSQL, SQL Server), C++, C#, Linux, Git, FastAPI, Streamlit, Gradio

AI / LLM & Agentic Systems: LangChain, LangGraph, RAG, Ollama, Llama 3.1, Groq, Gemini, Prompt Engineering, Vector DBs (FAISS, Chroma)

Machine Learning & MLOps: PyTorch, Scikit-learn, LightGBM, XGBoost, NumPy, Pandas, ETL Pipelines, SHAP, MLflow, Docker, PyTest, Azure, CI/CD (GitHub Actions), Evidently AI

Visualization & BI: Power BI, Tableau, Matplotlib, Seaborn,

Methodologies & Architecture: Agile/Scrum, SDLC, Microservices, Jira and REST API Integration

PROJECTS

FinRisk AI - Production MLOps Credit Risk System 🔗 🔄 | FastAPI, LightGBM, MLflow, Docker, Azure, Evidently AI

June 2026 – July 2026

- Built a complete end-to-end MLOps pipeline for credit default prediction, incorporating experiment tracking (MLflow), hyperparameter tuning (Optuna), model registry, CI/CD to Azure, and real-time drift monitoring.
- Delivered production-ready, explainable AI with SHAP transparency and sub-millisecond inference via FastAPI, demonstrating the ability to transition research models into reliable deployed systems.

Autonomous Data Analyst Agent 🔄 | LangGraph, Ollama (Llama 3.1), FastAPI, Streamlit, Pandas

April 2026 – May 2026

- Built a fully local, privacy-first autonomous agent that converts natural language queries into pandas analysis, statistical insights, and auto-generated visualizations.
- Implemented stateful LangGraph workflows with tool-calling and sandboxed code execution, demonstrating practical experience in reliable agentic AI systems.

MarathiVani - Multimodal Generative AI Tutor 🔄 | Llama (Groq), FLUX.1, gTTS, Gradio, Hugging Face

March 2026 – July 2026

- Designed and deployed a multimodal GenAI system that generates accurate Marathi explanations, educational diagrams, and natural voice-overs in one click for rural Class 8-10 students.
- Won the Best Generative AI Project Award for its innovative approach to providing accessible, culturally relevant multimodal AI in low-resource educational settings.

Crop DiseaseAI - Real-time Crop Disease Detection 🔄 | PyTorch, EfficientNet-B0, Computer Vision

Jan 2026 – March 2026

- Developed a deep learning model using PyTorch EfficientNet-B0 achieving 89.6% validation accuracy for detecting diseases in soybean and sugarcane crops common in Maharashtra.
- Built a farmer advisory system providing actionable recommendations based on predictions, demonstrating practical computer vision skills with real socio-economic impact in agriculture.

CERTIFICATIONS & ACHIEVEMENTS

- **Best Generative AI Project Award:** Winner at Seamedu Awards 2026 for MarathiVani (Multimodal AI Tutor).
- **Microsoft Certified:** Azure AI Fundamentals (AI-900) — May 2026.
- **Microsoft Certified:** Power BI Data Analyst (PL-300) — April 2026
- **Top 3 Finalist:** Ranked in the top 3 at the #Tech2026 Hackathon hosted by Ajeenkya DY Patil University (GDG) in the Data Science for Education track. 🔗