

Bharat Sanjay Dhande

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Professional Summary

Aspiring AIML Engineer with strong expertise in Large Language Models (LLMs), Generative AI, and Retrieval-Augmented Generation (RAG). Skilled in prompt engineering, fine-tuning, and deploying AI models using frameworks like LangChain, Hugging Face, and LlamaIndex. Experienced in building agentic AI applications, workflow automation (Zapier/n8n), and deploying ML/LLM models on AWS (SageMaker, Lambda, Bedrock). Passionate about leveraging GenAI trends to develop scalable and intelligent AI-driven solutions.

Work Experience

AI/ML Engineer Intern

Marworx Technology | Pune | Aug 2025 – Present

- Fine-tuned transformer-based NLP models (Hugging Face Transformers) to develop a production-ready chatbot, improving intent recognition accuracy by ~**85%** and reducing response latency by **30%**
- Optimized **diffusion pipelines** for deployment, achieving **20% faster inference** and improved scalability.

Technical Skills

- Programming:** Python, Java, SQL
- LLM & GenAI:** Hugging Face, LangChain, LlamaIndex, RAG, Prompt Engineering
- Frameworks & Libraries:** TensorFlow, PyTorch, scikit-learn, OpenCV, Pandas, NumPy, Matplotlib
- Cloud & Deployment:** AWS (SageMaker, Lambda), Docker
- Databases:** MySQL, PostgreSQL, Qdrant (Vector DB)
- Web & Frontend:** Flask, FastAPI, React.js (basic), Streamlit, HTML, CSS, Bootstrap
- Tools:** Git, GitHub, VS Code, Jupyter, Postman, PowerBI

Education

- Bachelor of Computer Science and Engineering (Artificial Intelligence & Machine Learning)**
Saraswati College of Engineering, Kharghar, Navi Mumbai | CGPA:7.6 - 2025

Projects

1) Smart Farm Using Machine Learning | Live link: [Smart Farm](#)

- Trained **Random Forest models** for crop and fertilizer prediction using synthetic agronomic data, achieving **93%+ accuracy** through hyperparameter tuning.
- Implemented **computer vision**-based plant disease detection using **OpenCV** and used imgaug for robust data augmentation.
- Developed an **NLP**-based chatbot using CountVectorizer and MultinomialNB for intent classification (crop, fertilizer, disease) to automate query resolution and guide users efficiently.
- Built a full-stack Django web app integrating all ML models with **multilingual** support.

2) Big Mart Sales Prediction | GitHub: [Big-Mart Sales Prediction](#)

- Developed a predictive model to forecast product sales across retail outlets using machine learning algorithms (**Linear Regression, Random Forest**).
- Cleaned and preprocessed data, handling missing values and encoding categorical variables for better model accuracy.
- Conducted exploratory data analysis (**EDA**) to uncover key patterns and relationships in sales data.

3) RAGify – ChatBot | GitHub:[RAGify](#)

- Developed an end-to-end **RAG (Retrieval-Augmented Generation)** chatbot using **LangChain**, **Streamlit**, and **Qdrant** to enable intelligent querying over PDF documents.
- Integrated HuggingFace BGE embeddings** and **TinyLLaMA (Ollama)** to semantically understand and answer user questions based on document content.
- Built a responsive **Streamlit dashboard** that supports **PDF upload**, **vector embedding generation**, and **interactive chat interface** with embedded document preview.
- Deployed **Qdrant via Docker**, ensuring **real-time vector storage**

Certifications

- ExcelR – Data science & Data analytics (Ongoing)
- Microsoft Azure - AZ 900 Fundamentals