

Bharat Dhande

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PROFESSIONAL SUMMARY

Results-driven AI & Data Professional with hands-on experience in Machine Learning, Data Science, and Generative AI. Skilled in predictive modeling, LLMs, NLP, MLOps, and data analysis using Python, TensorFlow, and scikit-learn. Detail-oriented, analytical, and collaborative, with strong problem-solving, adaptability, and communication skills. Proven ability to deliver impactful, reliable, and efficient AI solutions in real-world applications.

Key Achievements: Delivered 93% model accuracy | Reduced latency by 30% | Improved inference speed by 20%

TECHNICAL SKILLS

- Programming: Python, Java, SQL
- LLM & Generative AI: Hugging Face Transformers, LangChain, LlamaIndex, Retrieval-Augmented Generation (RAG)
- Frameworks & Libraries: TensorFlow, PyTorch, scikit-learn, OpenCV, Pandas, NumPy, Matplotlib
- Cloud & Deployment: Amazon Web Services (AWS) – SageMaker, Lambda, Docker, RESTful APIs
- Databases: MySQL, PostgreSQL, Qdrant (Vector Database)
- Web & Frontend Development: Flask, FastAPI, Streamlit, React.js (Basic), HTML, CSS, Bootstrap
- Tools & Platforms: Git, GitHub, VS Code, Jupyter Notebook, Postman, Power BI, Linux

WORK EXPERIENCE

AI/ML Engineer Intern | Marworx Technology | Pune | Aug 2025 – Feb 2026

- Fine-tuned NLP models (DistilBERT, LLaMA) for chatbot intent detection, achieving 85% accuracy.
- Reduced latency by 30% and improved reliability by automating Python & TensorFlow evaluation workflows.
- Optimized LLM preprocessing, fine-tuning, and inference for scalable, high-performance deployment.
- Integrated vector database and semantic search to improve document retrieval accuracy by 40%.
- Built an AI pipeline to convert P&ID diagrams into 3D models with 90% accuracy across 100+ components.

PROJECTS

Smart Farm Using Machine Learning | [Link](#)

- Built Random Forest models for crop and fertilizer prediction, achieving 93%+ accuracy using agronomic datasets.
- Created OpenCV-based plant disease detection system with imgaug augmentation for 5+ crop varieties.
- Developed NLP chatbot using CountVectorizer and MultinomialNB, delivering 92% intent classification accuracy.
- Executed data cleaning, feature engineering, and EDA using Pandas, scikit-learn, and Matplotlib to extract insights

Big Mart Sales Prediction | [Link](#)

- Built sales forecasting models (Linear Regression, Random Forest) across 100+ outlets with 89% accuracy.
- Cleaned and processed 1K+ records, handling missing values and encoding categorical data.
- Performed EDA on 20+ product features to uncover trends, improving revenue predictions by 15%.
- Optimized model hyperparameters using GridSearchCV and cross-validation to enhance prediction accuracy.

RAGify ChatBot | [Link](#)

- Developed an end-to-end RAG chatbot using LangChain, Streamlit, and Qdrant for querying 100+ PDFs.
- Integrated HuggingFace BGE embeddings and TinyLLaMA (Ollama) for 95% accurate semantic responses.
- Built a responsive Streamlit dashboard enabling PDF upload, vector embedding, and 10+ interactive previews.
- Deployed Qdrant via Docker for real-time vector storage and retrieval across 100+ documents.

EDUCATION

• **Bachelor of Computer Science and Engineering** (Artificial Intelligence & Machine Learning)

Saraswati College of Engineering, Kharghar, Navi Mumbai | 2025

CERTIFICATIONS

- Udemy – Python and Django
- Microsoft Azure – AZ-900 Fundamentals