

PRATIK JAGTAP

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Pune, Maharashtra

PROFESSIONAL SUMMARY

AI/ML enthusiast with practical experience in machine learning, NLP, and RAG-based applications. Skilled in building and deploying ML models, working with LLM frameworks, and developing API-based solutions. Strong analytical mindset with a solid foundation in data preprocessing and model evaluation.

EXPERIENCE

Machine Learning Intern | Future Interns (Remote)

Dec 2025 - Jan 2026

- Built end-to-end ML pipelines using Python and FastAPI, reducing manual preprocessing effort by 25%.
- Developed an Intent detection chatbot using TF-IDF and NLTK, improving accuracy by 27%.
- Refined supervised and forecasting models (Random Forest, XGBoost, Prophet), reducing Type II error by 42% and improving model stability and generalization performance.

SKILLS

- **Programming Languages:** Python, R, SQL
- **Machine Learning:** Classification, Regression, Model Evaluation, Feature Engineering, Data Preprocessing
- **Deep Learning:** Neural Networks, PyTorch, TensorFlow, Keras, Model Training, Fine-Tuning
- **Large Language Models (LLMs):** Hugging Face Transformers, Prompt Engineering, Tokenization, Fine-Tuning
- **Generative AI:** RAG, LangChain, Embeddings, Semantic Search, Vector Databases (FAISS)
- **Backend & APIs:** FastAPI, RESTful APIs, API Development
- **Deployment & MLOps:** Docker, API Deployment, Cloud Deployment
- **Version Control:** Git, GitHub

PROJECTS

Smart Customer Support Chatbot | [GitHub](#)

Dec 2025 - Jan 2026

- Built an NLP intent classification chatbot using TF-IDF, improving intent prediction F1-score by 24%.
- Integrated Telegram webhooks with FastAPI APIs, reducing response time by 35%.
- Deployed the application on Render with REST API endpoints, supporting automated responses for 20+ test queries with consistent performance.

AI-Driven Sales Forecasting System | [GitHub](#)

Nov 2025 - Dec 2025

- Engineered a time-series forecasting model using 36+ months of sales data, improving prediction accuracy by 20%.
- Applied trend decomposition and hyperparameter tuning, reducing forecast error by 18%.
- Created a Power BI dashboard for actual versus forecast comparison, improving KPI tracking efficiency by 40%.

Attrition Prediction Engine | [GitHub](#)

Nov 2025 - Dec 2025

- Implemented a supervised machine learning model to predict high-risk employee attrition, achieving 83% recall.
- Applied feature scaling and threshold tuning, improving model performance on high-risk cases.

EDUCATION

Master of Computer Applications (MCA)

Expected Jun 2026

Sinhgad Institute of Management, Pune

Bachelor of Computer Applications (BCA)

Sep 2021 - Jun 2024

Mugutrao Sahebrao Kakade College, Pune

CERTIFICATIONS & TRAINING

- AI Engineer (Data Mites Global Institute) – Feb 2026
- Ultimate Job Ready Data Science Course (Code with Harry) – Jan 2026
- Data Analysis (Simplilearn) – Jul 2025
- Python Programming – Feb 2025

ACHIEVEMENTS

- 1st Place in 3D Model Design Competition at Tech Drill Neo Vision.