PRATIK JAGTAP

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PROFESSIONAL SUMMARY

AI Engineer with hands-on experience designing, developing, and deploying machine learning and deep learning models through applied projects. Completed an industry-focused AI Engineer certification program and pursuing an MCA degree. Available for immediate joining.

WORK EXPERIENCE

Machine Learning Intern | Future Interns (Remote)   Dec 2025 - Jan 2026

- Delivered machine learning pipelines covering data preprocessing, model training, evaluation, and deployment using Python, scikit-learn, FastAPI, and cloud services.
- Engineered and evaluated an intent classification model using NLTK and TF-IDF, improving chatbot intent recognition accuracy by **27%**.
- Trained and tuned supervised ML models **(Random Forest, XGBoost)** using cross-validation and standard metrics, reducing the Type II error rate by **42%.**
- Deployed a time-series forecasting pipeline using Prophet, improving prediction accuracy by **15–20%** through feature engineering.
- Created a **Power BI** dashboard to monitor model performance, time-series trends, and **4** key business **KPIs**.
- Automated data analysis and **ETL pipelines** using **Python**, reducing manual preprocessing effort by **25–30%.**

TECHNICAL SKILLS

Programming & Data Processing: Python, SQL, Pandas, NumPy, PySpark, Feature Engineering, ETL Pipelines.
Machine Learning & Modeling: Classification, Regression, Time-Series Forecasting, Model Evaluation, Deep Learning, Hyperparameter Tuning.
Frameworks & Libraries: scikit-learn, XGBoost, TensorFlow, Keras, PyTorch.
NLP & LLMs: Text Preprocessing, TF-IDF, NLTK, Embeddings, Vector Databases (FAISS), RAG Pipelines, Hugging Face Transformers, LangChain, Prompt Engineering.
Deployment & MLOps: FastAPI, REST APIs, Docker, AWS EC2, CI/CD, Git, GitHub.

EDUCATION

Master of Computer Applications (MCA)   Sep 2024 - Jun 2026
Sinhgad Institute of Management, Pune

AI Engineer Certification Program   Aug 2025 - Feb 2026
DataMites Global Institute of Data Science, Pune

PROJECTS

Smart Customer Support Chatbot | GitHub | Video Demo   Dec 2025 - Jan 2026

- Implemented an NLP-driven intent classification chatbot using TF-IDF and scikit-learn for real-time query handling.
- Integrated the chatbot with Telegram using webhooks and exposed real-time inference via FastAPI.
- Hosted the application on Render using FastAPI, enabling real-time API access.

AI-Driven Sales Forecasting System | GitHub | Video Demo   Dec 2025

- Developed a time-series forecasting model using **36**+ months of historical sales data.
- Improved forecast accuracy by **18–22%** through trend decomposition and hyperparameter tuning.
- Built a Power BI dashboard for actual vs forecast analysis and KPI monitoring.

Attrition Prediction Engine | GitHub | Live Demo   Nov 2025 - Dec 2025

- Implemented a supervised ML classification model to identify high-risk employee attrition.
- Achieved **83**% recall through feature scaling and threshold optimization.
- Launched a Streamlit application providing real-time churn predictions and retention insights for HR teams.

CERTIFICATIONS

AI Engineer Program | Ultimate Job Ready Data Science | Data Analysis Course | Python Programming Certification

ACHIEVEMENTS

- Secured **1st** Place in a 3D Neural Network Model Design Competition organized by Tech Drill Neo Vision.