

TRUSHIT JAISWAL

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Education

University of Texas at Arlington Master of Science in Data Science - GPA 4.0/4.0	Aug 2024 – May 2026 Arlington, Texas
Charotar University of Science and Technology Bachelor of Technology in Computer Science and Engineering - GPA 3.72/4.0	Aug 2020 – May 2024 Gujarat, India

Experience

Dhyey Technologies (OPC) Pvt. Ltd. Machine Learning Engineer	Jun 2023 – Jun 2024 Gujarat, India
<ul style="list-style-type: none">Performed data cleaning, feature engineering, model training, and evaluation, experimenting with multiple algorithms and architectures to improve model accuracy by 20–25% across use cases.Trained, tested, and fine-tuned 10+ ML and deep learning models using Python, TensorFlow, PyTorch, and scikit-learn, analyzing results, debugging errors, and iterating based on performance metrics.Collaborated with domain experts to align model outputs with business requirements, performing validation and hyperparameter tuning to reduce training time by 30% and improve model consistency.	Apr 2023 – Jun 2023 Gujarat, India

Projects

AI Document Chatbot & Summarization System (RAG) Python, OpenAI API, FAISS, LangChain	<ul style="list-style-type: none">Developed an end-to-end Retrieval-Augmented Generation (RAG) chatbot using Python, LangChain, OpenAI API, and FAISS, enabling semantic search and question answering across multi-format datasets (PDF, CSV, Excel, DOCX).Implemented an LLM-based NLP pipeline using Groq Llama-3.1 for context-aware responses and document summarization and question answering, reducing manual information extraction time by 70%.Built an interactive Streamlit application for real-time document ingestion and semantic retrieval, processing 1,000+ text chunks per session.
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House Price Prediction Using Machine Learning Python, scikit-learn, Feature Engineering, Model Evaluation	<ul style="list-style-type: none">Built regression models on 20K+ housing records to enable accurate price estimation and support real estate valuation decisions.Achieved 20% RMSE reduction through feature engineering, k-fold cross-validation, and hyperparameter tuning, improving model reliability.
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Superstore Sales Dashboard & Forecast Power BI, Power Query, DAX, Excel
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- Created a **Power BI** Superstore Sales Dashboard using **ETL, data modeling**, and **7+ DAX KPIs** to analyze sales, profit, and trends across **50K+ records**.
- Applied **time-series forecasting** and interactive BI visuals, **reducing reporting effort by 30%** and enabling predictive, data-driven decision-making.

Technical Skills

Programming: Python, SQL, DAX, Power Query, HTML, CSS, JavaScript

Machine Learning & AI: NumPy, Pandas, scikit-learn, Deep Learning, NLP, RAG, OpenAI API, FAISS, ChromaDB, LangChain

Statistics & Analytics: EDA, Statistical Analysis, Hypothesis Testing, A/B Testing, Time Series Analysis

Data Tools & Platforms: Power BI, Tableau, Data Storytelling, MySQL, Relational Databases, Data Warehousing, Databricks, Snowflake, AWS (S3, EC2, SageMaker), Git, Jupyter