

TRUSHIT JAISWAL

+1 (682) 812-5290 | trushitjaiswal@gmail.com | linkedin.com/in/tmj0403

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

- 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.

BrainyBeam Technologies Pvt. Ltd.

Data Analyst Intern

Apr 2023 – Jun 2023

Gujarat, India

- Analyzed **100K+ records** using Python and SQL to perform **EDA, identify trends, anomalies, and behavioral patterns**, driving data-driven insights and operational improvements.
- Developed **interactive Power BI dashboards** and KPI reports (5+ metrics), collaborating with stakeholders to **improve decision-making and performance tracking by 15%**.

Projects

AI Document Chatbot & Summarization System (RAG) | Python, OpenAI API, FAISS, LangChain

- 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.

House Price Prediction Using Machine Learning | Python, scikit-learn, Feature Engineering, Model Evaluation

- 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.

Superstore Sales Dashboard & Forecast | Power BI, Power Query, DAX, Excel

- 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