

# Devarshi Trivedi

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## Education

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### University of Texas at Dallas

MS in Business Analytics and AI

Dallas, TX

Sep 2024-May 2026

Coursework: Business Analytics with R, Database Management Systems, Algorithms, Data Visualization

### Indus University

B.Tech in Computer Science & Engineering

Ahmedabad, India

Coursework: Machine Learning, Data Processing & Analysis, Data Science

July 2020-May 2024

## Skills

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**Languages:** Python, SQL, R, C++, Java

**Databases:** Postgres, MySQL, MongoDB

**Libraries & Frameworks:** Pandas, NumPy, Matplotlib, scikit-learn, TensorFlow, PyTorch, Streamlit, Word2Vec

**Machine Learning & NLP:** TF-IDF, SVD, Sentiment Analysis, Random Forest, XGBoost, Logistic Regression

**Other Tools & Platforms:** AWS, GitHub, Docker, Hugging Face API, Power BI, Tableau, Microsoft Office

## Experience

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### Business Intelligence Intern, DeSoto Technologies - India

Dec 2023-Mar 2024

- Mastered **Excel** for data manipulation and analysis, utilizing advanced features like **Pivot Tables**, **VLOOKUP**, and **Power Query** to streamline workflows and automate tasks with **VBA Macros**, boosting efficiency.
- Optimized **SQL** queries and managed large datasets using **Amazon Redshift**, creating high-performance queries that facilitated insightful data extraction and analysis.
- Developed **actionable visualizations** in **Tableau**, transforming raw datasets into interactive stories to enhance business decision-making and user engagement.

### Data Science Intern, Prodigy InfoTech – India

Sep 2023 - Oct 2023

- Applied **analytical thinking** to deconstruct complex problems into manageable steps, delivering actionable and efficient solutions.
- Addressed challenges related to **data quality**, resolving inconsistencies and ensuring robust preprocessing for reliable analysis.
- Overcame **modeling difficulties** and unexpected outcomes by implementing strategic adjustments and optimization techniques to enhance performance.

## Projects

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### Art Gallery Management Database System

- Designed and implemented a **relational database system** for art gallery management, streamlining operations such as artwork inventory, artist profiles, and exhibition schedules. Optimized **SQL queries** for data analysis and reporting, and developed a user-friendly interface to enhance workflow efficiency and accuracy.

### The Comet Movie Recommender

- Built The Comet Movie Recommender, a **Streamlit** web app delivering real-time recommendations to 500+ test users using content-based and collaborative filtering.
- Achieved 92% prediction accuracy by implementing **TF-IDF**, cosine similarity, SVD, and ML models (Random Forest, **XGBoost**, **Logistic Regression**).
- Processed and analyzed 10,000+ movie reviews via **sentiment analysis** and classification pipelines, enabling highly personalized viewing suggestions.