

# Dhawal Panchal

Dallas, TX

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LinkedIn: [LinkedIn Profile](#) | Profile: [Project Portfolio](#)

## Summary

Proven expertise in leveraging data analytics and visualization to drive performance improvements and decision-making. Skilled in SQL, Python, Tableau, Power BI, and business solution optimization. Experienced in experimental analysis, modeling, and hypothesis testing to improve campaign efficiency and customer acquisition strategies.

## Technical Skills

**Relational Database:** MS SQL Server 2019, MySQL, PostgreSQL

**SDLC:** Agile, Scrum, Waterfall, and Spiral

**Data Modeling:** Lucid Chart, MS Visio, ER-win

**Database Programming:** T-SQL, Dynamic SQL, DAX

**Experimentation & Modeling:** Visual Studio, SSMS, SPSS, SAS

**Programming Skills:** Python, R, Hadoop, Spark, Hive, Impala

**Reporting Tools:** Excel, Power BI, Tableau, R studio, Looker, Look ML

**Source Control & Collaboration Tool:** Team Foundation Server (TFS), SharePoint, DBT, Git

**Cloud Technologies:** AWS, GCP, Azure

**Additional skills:** Statistical analysis (hypothesis, ANOVA, regression, decision trees etc.) , Data – Extraction, Modeling, Analysis & Visualization

## Projects

### Customer Segmentation & Product Recommendation for UK Retail Dataset

- Developed a data-driven customer segmentation strategy for a UK-based online retailer using K-means clustering. Created a recommendation system to suggest top-selling products within each customer segment to enhance marketing strategies and sales performance.
- Conducted data cleaning, transformation, feature engineering, and clustering analysis. Implemented a product recommendation system based on customer segment preferences to boost sales.
- Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, K-means clustering algorithm.

### Seattle Air Quality Forecasting

- Developed a multivariate time series model (ARIMA\_PLUS\_XREG) to forecast daily PM2.5 levels using historical air quality, temperature, and wind speed data.
- Created data models, implemented forecasting functions, evaluated model accuracy, and visualized trends using Looker Studio.
- Google BigQuery, GoogleSQL, dbt Cloud IDE, Looker Studio, ARIMA\_PLUS\_XREG model.

### IMDB Reviews Sentimental Analyst

- Performed sentiment analysis and keyword extraction on IMDB movie reviews using Google BigQuery and Vertex AI. The project leveraged LLM-based models to analyze reviews for sentiment and extract meaningful keywords.
- Developed queries for sentiment analysis and keyword extraction, evaluated LLM model accuracy, optimized prompts, and validated results through manual inspection.
- Google BigQuery, Vertex AI, SQL, text-bison LLM.

## Experience

### Data Analytics & Machine Learning Fellow Trainee ElevateMe Bootcamp, Columbus, Ohio

January 2024 – Present

- Engaging in 150+ hours of hands-on learning and project work, including active participation in a live project and two optional capstone projects.
- Apply data analytics and machine learning techniques to address real-world problems.
- Utilize advanced tools such as Python, Jupyter Notebooks, Pandas, Numpy, Matplotlib, Seaborn, and Scikit-learn to build and evaluate machine learning models.
- Deploy machine learning models on Microsoft Azure, integrating Azure ML with Azure SQL databases to enable real-time analytics and predictions.

- Perform data preprocessing, feature engineering, and model selection, and evaluate regression, classification, and clustering algorithms to optimize performance.
- Collaborate in a professional team environment using tools like Jira, Confluence, and Slack for project management and effective communication.

### **Application Development Consultant**

**Aug 2024 – Present**

#### **Community School of Art Foundation, Dallas TX**

Leveraged technical and leadership skills to design and implement scalable database solutions, supporting efficient data-driven operations and enhancing system performance. Provided strategic recommendations to optimize existing systems and introduced innovative solutions to meet evolving business needs. Collaborated with cross-functional teams to align technical solutions with project goals and user requirements while managing budget constraints and project timelines.

#### **Key Accomplishments:**

- Spearheaded team reorganization into specialized units, improving project timeline efficiency by 20% and establishing effective task tracking using Jira.
- Developed Python scripts for AWS Lambda to streamline data interactions with RESTful APIs and Stripe event webhooks, enhancing system functionality.
- Conducted Joint Application Development (JAD) sessions to assess user needs, driving user-centric design decisions.
- Provided comprehensive architectural documentation and progress updates, aligning technical strategies with business objectives.

### **Application Development Analyst**

**July 2019 – July 2022**

#### **Accenture, Mumbai**

Collaborated with cross-functional teams to manage and enhance MS CRM and SAP (CRM, IS-U modules), driving improvements in customer engagement and operational efficiency. Automated workflows and optimized testing processes to ensure high system performance and data accuracy. Transformed complex business requirements into technical specifications and actionable solutions, enhancing system functionality and data-driven decision-making.

#### **Key Accomplishments:**

- Recognized as a top performer, receiving the Pinnacle "Rising Star" award (2021) and Integrity Star Performer award (February 2022).
- Improved operational efficiency by 25% through data modeling and automation of manual processes using Excel and workflow automation tools.
- Reduced post-release defects by 25% by spearheading complete testing cycles and automated compliance testing strategies.
- Enhanced data-driven decision-making by 30% by designing and delivering Power BI dashboards that effectively communicated actionable insights to stakeholders.
- Authored over 100+ SOPs and user manuals, improving knowledge sharing and reducing review time.

### **Education**

**MS. in Information technology and management:** The University of Texas at Dallas, Dallas, TX **Aug 2022 - May 2024**

**B. Tech in Electronics and Telecommunication:** K.J. Somaiya College of Engineering, Mumbai, India **Aug 2015 - May 2019**

### **Certifications**

#### **Data Analytics and Machine Learning Certificate of Completion**

**Jan 2025-Present**

#### **ElevateMe Bootcamp**

150+ hours of hands-on coursework, having completed a Data Analytics project and Machine Learning project using Tableau, Python, Machine Learning and SQL

- Certificate in Enterprise Systems (SAP)
- AWS Solution Architect Associate
- Microsoft Azure Fundamentals (AZ 900)
- Hacker Rank: SQL Intermediate level
- Google Data Analytics
- Automation Specialist Level 2
- Test Design Specialist Level 1