

# DRASHTI MTESHKUMAR MEHTA

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## CAREER SUMMARY

Detail-oriented and analytics-driven Data Scientist with a master's in data science and strong expertise in pricing analytics, forecasting, and business intelligence. Proficient in Python, SQL, R, Tableau, and ML libraries including Scikit-learn and TensorFlow. Proven experience in developing regression models, forecasting pipelines, and dashboarding solutions that inform strategic pricing and promotional decisions.

## EDUCATION

University of North Texas | Denton, TX  
**Master of Science - Data Science**

May 2025

Gujarat Technological University| Gujarat, India  
**Bachelor of Engineering – Information Technology**

May 2022

## SKILLS

### Technical Skills:

1. Languages & Tools: Python, SQL, R, Java, Tableau, Power BI (learning), Excel, Git, Jupyter, VS Code
2. Logistics & Supply Chain Analytics: Data tracking, Root Cause Analysis
3. Libraries/Frameworks: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Flask
4. Data Science: Exploratory Data Analysis, Sentiment Analysis, Classification, Forecasting, LLM Pipelines
5. BI & Analytics: Data Modeling, Dashboarding, Data Warehousing, Statistical Modeling
6. Cloud & Platforms: AWS (basic), MIMIC-III, RapidMiner, Gradio, Hugging Face

**Core Competencies:** Highly organized, detail-oriented with Critical Thinking, Entrepreneurship, Team Management, Communication (Written and Verbal), Administrative Competence, Time Management, Analytical Proficiency, Root Cause Analysis, Data Integrity Checks, Statistical Modelling

## PROJECT

- Med-Eval: G-Eval for Clinical Summarization - Built GPT-based pipeline (Mistral-7B, LLaMA-2) to evaluate discharge summaries using Chain-of-Thought prompting and G-Eval. Engineered and deployed a modular pipeline leveraging structured data modeling and real-time LLM evaluations benchmarked against traditional metrics (ROUGE, BLEU).
- IMDb Movie Review Sentiment Analyzer - Built a classifier using logistic regression and TF-IDF to analyze sentiment; achieved 85% accuracy.
- Predictive Analysis of Financial Market Trends -Designed feature-rich stock prediction models using time-series data, developed dashboards to monitor real-time KPIs, and simulated model performance at scale.
- Dynamic Pricing Strategy - Modelled pricing optimization using retail data; identified key factors driving revenue changes.
- Lifestyle Determinants of Obesity - Leveraged behavioral data analytics and interactive dashboards to uncover key patterns in user behavior insights directly applicable to content consumption analysis and user engagement modeling in media platforms.

## INTERNSHIP EXPERIENCE

### KGS Technology Group, Data Scientist Intern | Alpharetta, GA (Remote)

Aug 2025 - Present

- Collected, cleaned, and analyzed data from multiple sources; performed exploratory data analysis (EDA) to uncover trends, patterns, and anomalies.
- Built and evaluated predictive ML models with feature engineering; optimized performance using accuracy, precision, recall, and AUC metrics.
- Designed insightful dashboards and visualizations (Python, Tableau, Power BI) to translate complex business challenges into actionable, data-driven solutions in collaboration with cross-functional teams.

### University of North Texas, Volunteer Research Assistant | Denton

August - December 2024

- Collaborated with Dr. Mohammed Aledhari's lab to evaluate the RAFT (Retrieval-Augmented Finetuning) method for domain-specific adaptation of large language models (LLMs).
- Analyzed and replicated RAFT's open-source implementation from Berkeley AI Research to assess its effectiveness against traditional finetuning and RAG techniques.
- Set up model environments, performed code reviews, and assisted in dataset preparation and tuning strategies for clinical summarization tasks.
- Presented technical findings in weekly meetings and contributed to improving research documentation and experiment tracking protocols.

### Corizo, Data Science Intern | India

March - April 2022

- Built and deployed machine learning models (e.g., Logistic Regression, Random Forest) across five active business projects involving classification and forecasting.
- Applied statistical analysis and feature engineering techniques to improve model accuracy and reliability by ~15%.
- Created repeatable modeling pipelines in Python for classification and prediction tasks.
- Worked with stakeholders to translate business problems into data-driven solutions with measurable outcomes.

### Dots & Coms, ASP.Net Developer Intern | Vadodara, India

January - April 2022

- Developed 30+ dynamic web pages using ASP.NET, C#, HTML, CSS, and SQL Server, including login, registration, and admin interfaces.
- Used the MVC framework to separate business logic from UI and ensure modular, scalable code.
- Participated in code reviews and bug-fixing sessions to ensure smooth user experiences and deployment readiness.

### Volansys Technologies, Full Stack Developer Intern | Ahmedabad, India

August - December 2021

- Aided Technical Leads and other Associate Engineers in ongoing projects based on Python and Flask.
- Developed cloud-native data pipelines (ETL) using Python and improved query speed by optimizing SQL data models for large-scale business datasets.
- Utilized AWS services for managing data storage and processing, ensuring smooth data flow through ETL pipelines.
- Analyzed code to find bugs and fix errors, simultaneously creating small components of projects.
- Designed 10 mini projects, such as a food ordering app, while gaining knowledge of JavaScript and ReactJS.

### Brainy Beams Pvt Ltd., Data Science Intern | India

May - June 2021

- Designed and trained a weather forecasting model using regression techniques and developed a music recommendation system via sentiment analysis.
- Built robust ETL workflows to clean and transfer raw data from source files to SQL databases, enabling faster querying and reporting.
- Partnered with another intern to prototype a collaborative Book Recommendation System, leveraging collaborative filtering and text analysis.
- Used Jupyter Notebook, Python (Pandas, Scikit-learn), and SQL for end-to-end model development and evaluation.

### BIT Infotech, Data Analyst (Part-Time) | India

March 2020 - March 2021

- Worked part-time as a Data Analyst while pursuing my studies, applying Python-based analytics to multiple real-world datasets.
- Gained hands-on experience in data preprocessing, cleaning, prediction, and visualization using Python libraries including Pandas, NumPy, Scikit-learn, and Matplotlib.
- Built and evaluated models using machine learning algorithms and natural language processing techniques to solve practical data problems.
- Delivered insights and reports by analyzing patterns in structured and unstructured data, strengthening my ability to connect data findings with business outcomes.

## CERTIFICATIONS/ WORKSHOPS

- Tableau Desktop Professional - Unilytics
- Data Analytics with Python - BIT Technologies
- Data Analytics Corporate Training and Microsoft Excel Complete Mastery - Jobaaj Learnings
- Python, Web Development, Data Analytics, and Artificial Intelligence Workshops - MyCaptain
- Accenture North America Data Analytics and Visualization Job Simulation on Forage