

Drashti Miteshkumar 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

May 2025

Master of Science - Data Science

Gujarat Technological University | Gujarat, India

May 2022

Bachelor of Engineering - Information Technology 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

University of North Texas, Volunteer Research Assistant

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.

Volansy 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