

# Drashti Miteshkumar Mehta

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## CAREER SUMMARY

I am a highly motivated and adaptable Data Science graduate student with a strong foundation in software development, statistical modeling, data analytics, and business analyst. My experience spans full-stack engineering, machine learning, data visualization, and cloud-based ETL workflows. I bring hands-on expertise in Python, SQL, React, Tableau, and AWS, and have worked on real-world projects in healthcare, finance, and retail domains. Skilled in translating complex problems into practical solutions, I thrive in collaborative environments where analytical thinking, problem-solving, and communication drive innovation and impact.

## EDUCATION

University of North Texas | Denton, TX

May 2025

Master of Science – Data Science

3.7 GPA

Gujarat Technological University | Gujarat, India

May 2022

Bachelor of Engineering – Information Technology

3.5 GPA

## SKILLS

Technical Skills:

- 1) Programming Languages: Python (Exploratory Data Analysis, Data Mining, Machine Learning), R, Java, HTML, CSS, JavaScript, React
- 2) Libraries & Frameworks: NumPy, Pandas, Scikit-learn, BeautifulSoup, Matplotlib, Seaborn, Bootstrap, Flask
- 3) Data Analytics, Machine Learning (Supervised and Unsupervised Algorithms) & Statistical Algorithms, LLM models
- 4) Data Management & Business Intelligence: Data Modeling, Data Warehousing, MySQL, Microsoft SQL Server, Tableau, AWS(Beginner)
- 5) Software & Tools: Anaconda (Jupyter Notebook), Google Colab, Visual Studio, Visual Studio Code, Microsoft Office Suite (Beginner), GIT, RapidMiner

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. Created ETL workflows from MIMIC-III clinical data; 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 - Used regression models and feature engineering to forecast stock prices, visualized results via dashboards.
- Dynamic Pricing Strategy - Modelled pricing optimization using retail data; identified key factors driving revenue changes.
- Lifestyle Determinants of Obesity - Analyzed synthetic health data; built classification models and Tableau dashboards for insight reporting.

## 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.

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.
- Designed and implemented data pipelines to automate the extraction, transformation, and loading (ETL) of data from various sources to AWS for further analysis.
- 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.

## 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