

KRUTIK MEHTA

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EDUCATION

The University of Texas at Austin

M.S. in Information Science, Specialization: Data Science

August 2025 - May 2027

GPA: 4.0/4.0

- Coursework: Statistical Analysis & Machine Learning, Prompt Engineering, Information Theory

University of Mumbai

Bachelor of Engineering in Computer Engineering

August 2018 - May 2022

GPA: 9.35/10

SKILLS

Languages: Python, R, SQL, JavaScript, C#, Ruby, Java, C++, HTML

Frameworks: TensorFlow, scikit-learn, PyTorch, Huggingface, NumPy, Pandas, React.js, LangChain, Node.js

Databases: MongoDB, Redis, MySQL, Pinecone, Elasticsearch, Cassandra, Neo4j

Tools: Git, Spark, AWS, Airflow, BigQuery, Hadoop, JIRA, Confluence, Postman, Docker, Tableau, PowerBI

EXPERIENCE

The University of Texas at Austin, Graduate Research Assistant

August 2025 - Present

- Led technical development on first-ever US hospital research, making an **RAG** pipeline for 18 years of data across **5,000+** facilities; used **sentence-BERT** for multi-entity resolution, **Python** for M&A impact analysis, and **GNNs** to map competitive landscapes.
- Designed an **OpenAI LLMs + Wayback Machine** research system to trace 20 years of cybersecurity incidents across tech firms.

Integr8 Inc, Junior Business Analyst - Research & Development

November 2023 - June 2025

- Rebuilt legacy pricing frameworks by implementing time-series gradient boosting models (XGBoost + LightGBM) in **R**, improving market prediction accuracy by **63%**.
- Migrated **18TB+** of data from on-premise servers to **AWS S3** and **Redshift**, thus enabling scalable cloud-based data warehousing.
- Developed a global planning feature in **PySpark**, integrating real-time **REST API** feeds, driving **\$0.5M** in subscription revenue.
- Fully automated** monthly consumer performance reporting by developing new Analytics Engine module (prototyped in **Tableau**).

Ernst & Young, Senior Analyst - Technology Consulting

July 2022 - September 2023

- Built cloud-native ETL pipeline integrating **Hadoop HDFS** & **BigQuery** to aggregate data from **10+ banks**, enabling actuarial incentive calculations for insurance agents.
- Deployed **Docker** and **GitLab CI/CD** pipeline to ensure reliable delivery of tracking, features and updates across multiple sites.
- Optimized critical remuneration process using performance enhancements in **PostgreSQL**, reducing system release time by **45%**.
- Handled end-to-end project deployments using **Agile methodologies** & built business-centric dashboard stories using **Power BI**.

People Org, Data Science Intern

July 2021 - September 2021

- Conducted **A/B testing** of collaborative filtering & content-based recommendation systems to evaluate model uplift and optimize budget allocation decisions for targeted marketing campaigns.
- Developed a **Random Forest** churn prediction model to assist the engagements team identify and retain **36%** of at-risk app users.
- Performed Exploratory Data Analysis using PCA & multivariate modeling; rendered visualizations using **Python** & **MongoDB**.

VIJ Technologies, Software Engineering Intern

July 2020 - December 2020

- Led **MVC system architecture** of **3** full-stack websites using **React**, **Node.js**, & **Redis**, ensuring scalability & responsiveness.
- Improved web performance by **27%** via caching, asynchronous lazy loading, and JavaScript enhancements, boosting SEO rankings.
- Created **Figma** prototypes for web features, improving UX through iterative design patterns, and feedback from **9** usability tests.

PROJECTS

Open-Source-Plugins | Python, C++, Ruby

October 2025

- Developed 3-D modeling plugins with parametric controls for Autodesk 3ds Max & Sketchup Pro; saving hours of manual processing.

Fitly | Gemini 2.5 Pro, Firebase, MongoDB, Express.js, React, Node.js, CSS

July 2025

- Built a MERN stack web app integrating Gemini LLMs to create personalized family health plans; based on 8+ user parameters.

RESEARCH PUBLICATIONS

[1] Krutik Mehta, Guruanjan Singh, Aniket Kore and Sridhar Iyer, “A Framework for Opinion-Mining of Tweets” in the *International Research Journal of Science and Engineering (IRJSE)*, A14, 2024 

[2] Guruanjan Singh, Krutik Mehta, Apoorva Mishra, Harnish Chawla and Dr. Narendra Shekokar, “An adaptive License Plate Recognition Framework for Moving Vehicles” in the *AIP Conference Proceedings*, Volume 2794, Issue 1, 2023 