

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 <i>Python, C++, Ruby</i>	October 2025
• Developed 3-D modeling plugins with parametric controls for Autodesk 3ds Max & Sketchup Pro; saving hours of manual processing.	
Fitly <i>Gemini 2.5 Pro, Firebase, MongoDB, Express.js, React, Node.js, CSS</i>	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 📄