

JEENAL MEHTA

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EDUCATION AND CERTIFICATIONS

University of Illinois at Urbana-Champaign, United States

Master of Science in Information Management (Concentration: Data Science and Analytics)

Coursework: Quantitative Analytics, Information Modelling, Data Warehousing, Business Intelligence

Expected: May 2025

(GPA: 3.8/4.0)

University of Mumbai, India

Bachelor of Technology in Information Technology, Minors in Management

Coursework: Machine Learning, Statistics, Algorithms Analysis, Advanced DBMS, Big Data Analytics

May 2023

(GPA: 3.7/4.0)

Cloud Computing, Indian Institute of Technology Kharagpur (IIT Kharagpur)

2022

Data Science with Python, Indian Institute of Technology Madras (IIT Madras)

2022

PROFESSIONAL EXPERIENCE

Data Analyst

Jan 2024 - Present

Illinois Business Consulting

Champaign, IL

- Contributed to **3** research intensive consulting projects as **SME** in Data Analysis for market entry and marketing strategies
- Analyzed competitor data using SQL complex joins, **Looker** and **BigQuery** that streamlined data-driven decision-making
- Designed weekly PowerBI dashboards with **DAX**, optimizing business strategy insights for stakeholders

Data Science Research Intern

Aug 2022 - May 2023

Sardar Patel Institute of Technology

Mumbai, India

- Developed a **91%** accurate Monkeypox predictive model using TensorFlow and CNN model EfficientNet-B3
- Modelled quantum machine learning to solve e-commerce logistic problems like **QNN model** for back-order prediction and **QAOA** for vehicle route optimization on IBM Quantum Lab using **PennyLane**, saving 30% of transportation costs
- Engineered NLP-based web browsing tool using NLTK and Scikit-learn for **content summarization** and calculating **relevancy score** for prioritization to increase efficiency for **ADHD** diagnosed users

Data Engineering and Analytics Intern

Jan 2022 - Jul 2022

Merkle

Mumbai, India

- Deployed **scalable** data pipelines for **real-time data** ingestion from client's website, **cut-down cost** by 17% annually
- Injected streaming data from **AWS S3 bucket** using **Apache Kafka Connect API** into data pipelines built on **AWS EC2 instance**, enhancing horizontal scalability in cloud infrastructure
- Automated report generation using **Snowflake** connected with Apache NiFi via **JDBC drivers**, leveraging dynamic metadata querying on **4M records** of transformed data
- Standardized data pipeline **documentation** and management processes for knowledge transfer, saving **1200 man-hours**

ACADEMIC PROJECTS AND PAPERS

Machine Learning and Data Analytics | Traffic Crash Pattern Analysis | R, SQL and Python

- Analyzed **740K** crashes using **tidyr**, **dplyr** and **ggplot2** using R, identifying patterns that informed city intersection redesign
- Reduced right-angle collisions by **28%** through traffic-light intersection modifications
- Developed a Random Forest Classifier with Scikit-learn, predicting crash severity with **89%** accuracy for targeted countermeasure deployment

Data Analytics and Visualization | Electric Vehicle Adoption | Python (Pandas, Seaborn, Scikit-learn), MS Excel and Git

- Leveraged **Pandas** and NumPy to analyze correlations between consumer purchases and demographics across 4 datasets
- Predicted** consumer demand across **6 parameters** using Scikit-learn, providing insights for targeted marketing strategies
- Utilized macros, pivot tables and VLOOKUP on MS Excel for **data preprocessing** and Seaborn library for **visualizations**
- Presented findings to stakeholders, enhancing data-driven decision making processes

Minimize Web Diversion using Query Classification and Text Mining, Springer ICDICI 2023

[Link](#)

EfficientNet-B3 and Image Processing for Monkey-pox Detection using Skin Lesion Images, IEEE SMARTGENCON 2022

[Link](#)

SKILLS

Programming: Python, SQL, R, MATLAB, Groovy, C

Cloud and Databases: AWS (S3, Redshift), Snowflake, Azure SQL, PostgreSQL, MongoDB, Apache Hadoop, Neo4j

Tools: Apache Kafka, Apache Spark, Talend, Tableau, Apache NiFi, PowerBI, SAS, Jira, Zoho, Alteryx, Qualtrics, MS Excel, Looker

Expertise: Data Wrangling, Analysis of Large Datasets, Data Visualization, Hypothesis Testing, Database Management

EXTRA CURRICULAR ACTIVITIES/LEADERSHIP

- Winner of Throw-ball City Championship **2022**
- Top 1% in Cloud Computing Certification, Indian Institute of Technology Kharagpur (IIT K) [\[Certificate\]](#) **2022**
- Led a 40-member team to rank #1 at the National Entrepreneurship Challenge among 700+ teams [\[Certificate\]](#) **2020**