

JEENAL MEHTA

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EDUCATION AND CERTIFICATIONS

University of Illinois at Urbana-Champaign, United States

Expected: May 2025

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

(GPA: 3.8/4.0)

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

University of Mumbai, India

May 2023

Bachelor of Technology in Information Technology, Minors in Management

(GPA: 3.7/4.0)

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

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

- Built **predictive models** using Python to analyze competitor trends on streaming data integrated from **5** disparate sources
- Designed **11** Power BI dashboards with DAX, providing **real-time insights** that accelerated decision-making for stakeholders
- Presented findings on competitor behavior in **4 stakeholder meetings**, directly influencing adjustments in business strategy

Data Science Researcher

Aug 2022 - May 2023

Sardar Patel Institute of Technology • Internship

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 Developer

Jan 2022 - Jul 2022

Merkle • Internship

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 (Advanced), SQL (Advanced), R (Advanced), C (Intermediate), Java (Novice)

Cloud and Databases: AWS (S3, Redshift), Snowflake, PostgreSQL, Apache Hadoop (MapReduce), HBase, Neo4j

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

Expertise: Data Mining, Analysis of Large Datasets, Data Visualization, ETL/ELT Data Pipelines

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**