

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) <i>Coursework:</i> 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 <i>Coursework:</i> 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 <i>Illinois Business Consulting</i> <i>United States' largest student-run, professionally managed consulting organization</i> <ul style="list-style-type: none">Analyzed competitor data using SQL complex joins, Looker and BigQuery that streamlined data-driven decision-makingDesigned weekly PowerBI dashboards with DAX, optimizing business strategy insights for stakeholders	Jan 2024 - Present <i>Champaign, IL</i>
Data Science Research Intern <i>Sardar Patel Institute of Technology</i> <ul style="list-style-type: none">Developed a 91% accurate Monkeypox predictive model using TensorFlow and CNN model EfficientNet-B3Modelled 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 costsEngineered 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	Aug 2022 - May 2023 <i>Mumbai, India</i>
Data Engineering and Analytics Intern <i>Merkle</i> <ul style="list-style-type: none">Deployed scalable data pipelines for real-time data ingestion from client's website, cut-down cost by 17% annuallyInjected streaming data from AWS S3 bucket using Apache Kafka Connect API into data pipelines built on AWS EC2 instance, enhancing horizontal scalability in cloud infrastructureAutomated report generation using Snowflake connected with Apache NiFi via JDBC drivers, leveraging dynamic metadata querying on 4M records of transformed dataStandardized data pipeline documentation and management processes for knowledge transfer, saving 1200 man-hours	Jan 2022 - Jul 2022 <i>Mumbai, India</i>

ACADEMIC PROJECTS AND PAPERS

Machine Learning and Data Analytics Traffic Crash Pattern Analysis R, SQL and Python <ul style="list-style-type: none">Analyzed 740K crashes using tidyr, dplyr and ggplot2 using R, identifying patterns that informed city intersection redesignReduced right-angle collisions by 28% through traffic-light intersection modificationsDeveloped 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 <ul style="list-style-type: none">Leveraged Pandas and NumPy to analyze correlations between consumer purchases and demographics across 4 datasetsPredicted consumer demand across 6 parameters using Scikit-learn, providing insights for targeted marketing strategiesUtilized macros, pivot tables and VLOOKUP on MS Excel for data preprocessing and Seaborn library for visualizationsPresented 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