JEENAL MEHTA *she/her*

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Curious individual with a can-do attitude having experience in implementing innovative solutions leveraging big data

EDUCATION

University of Illinois at Urbana-Champaign, Information Management – Master's Candidate   **Expected: May 2025**
Concentration: Data Science and Analytics   **(GPA: 4.0/4.0)**
Coursework: Data and Statistics, Data Warehousing, Quality in Analytics, Information Modelling, Business Intelligence

Sardar Patel Institute of Technology, University of Mumbai, India   **May 2023**
Bachelor of Technology in Information Technology, Minors in Management   **(GPA: 3.9/4.0)**
Coursework: Data Structures, Algorithms Analysis, Machine Learning, Advanced DBMS, Big Data Analytics, Statistics, IT in Business

PROFESSIONAL EXPERIENCE

Research Analyst | *Illinois Business Consulting, Illinois, United States*   **Jan 2024-Present**
United States' largest student-run, professionally managed consulting organization with clients worldwide
- Conducted market/competitor analysis for modern Control Systems/Power Harvesting technologies to improve product efficiency for a Fortune 300 company

Data Science Research Intern | *Sardar Patel Institute of Technology, Mumbai, India*   **May 2022-Dec 2022**
- Yielded an accuracy of 91% by assessing skin lesion images from the "Monkeypox Skin Lesions" dataset to predict the presence of Monkeypox using deep learning models namely ResNet50, EfficientNet-B3, VGG16, and InceptionNetV3

Data Engineer Intern | *Merkle Inc, Mumbai, India*   **Jan 2022-Jul 2022**
- Developed and implemented proof-of-concepts for a new enterprise data architecture for ETL/ELT approaches, performed use-case analysis for prototype, resulting in a 10% reduction in end-to-end process time for client-data analysis
- Constructed data pipelines for streaming data collection from AWS S3 bucket, transformed data into usable format using Apache Kafka and Groovy, resulting in better horizontal scalability
- Automated processing of 2-million records through Apache NiFi and MySQL, facilitating seamless integration with Snowflake for automated analysis report generation
- Documented methodologies for data pipeline management and created interactive Tableau dashboards, to be used in weekly client meetings aimed at performing strategic analysis for e-commerce clients

Business Analyst Co-op | *N. Shashikant & Company, Mumbai, India*   **Jun 2020-Dec 2021**
- Designed and deployed a novel Customer Relationship Management (CRM) tool using Zoho, resulting in a two-fold increase in lead conversion rate of warm leads
- Enhanced lead generation by 40% via performing analytics consumer purchase history and buying patterns using PowerBI

ACADEMIC PROJECTS AND PAPERS

Data Analytics and Visualization | Electric Vehicle Adoption| *Python (Pandas, Seaborn) and Jupyter Notebook* (Link)
- Conducted data analysis on EV adoption utilizing 4 datasets, investigating correlations of consumers buying EVs with population density, education levels, income, and ethnicity

Machine Learning and Data Analytics | Traffic Crash Pattern Analysis | *R, Python and MS Excel* (Link)
- Led team in analyzing 740K crashes to inform intersection redesign, reducing right-angle collisions by 28%, and predicted crash severity with 85% accuracy to deploy countermeasures in high-risk areas

Data Engineering and Visualization | Human Resources Intelligence | *Python, Talend and Tableau* (Link)
- Spearheaded a cross-functional team to build interactive dashboards visualizing attrition trends, layoff impacts, and economic resilience across 12 sectors, enabling data-driven retention strategies for workforce planning

Natural Language Processing (NLP) – Text Mining | Web Distraction Minimizer | *PyTorch, NLTK and Random Forest*
- Constructed a tool that incorporates query classification and SEO to reduce distractions while browsing the web, utilizing a pipeline to extract features from tokenized texts and metadata

Supply Chain Management (SCM) | Quantum Computing for SCM | *Pandas, NumPy, Pennylane and IBM Quantum Lab*
- Modelled quantum machine learning to solve logistic problems, QNN model for backorder prediction and QAOA for vehicle route optimization, thereby improving predictability and saving of up to 30% of costs associated with transportation

Minimizing 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 (Pandas, NumPy, PySpark), SQL, R, MATLAB, Groovy, C
Cloud and Databases: AWS (S3, Redshift), Snowflake, Azure SQL, PostgreSQL, MongoDB Atlas, Apache Hadoop
Tools: Apache Kafka, Apache Spark, Talend, Tableau, Apache NiFi, Power BI, SAS, Jira, Zoho, Alteryx, Qualtrics, MS Excel, GCP Looker

EXTRA CURRICULAR ACTIVITIES/LEADERSHIP

- 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**