

RAJ MEHTA

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Education

University of Illinois at Urbana-Champaign

Aug 2023 – May 2024

Masters of Science in Business Analytics

Relevant Courses: Database Management, Predictive & Statistical Analysis, Business Intelligence, Decision Modeling, Data Mining, Data Storytelling, Data Visualization, Machine Learning

NMIMS Mukesh Patel School of Technology Management and Engineering

July 2017 – May 2021

Bachelor of Technology in Information Technology

GPA: 2.88/4

Experience

Discovery Partners Institute

Chicago, Illinois

Data & Python Engineer

December 2023 - Present

- Developed grant tracking system to optimize grant acquisition through web scraping, AI matching, and browser-based app integration
- Implemented AI matching and Python web scraping to improve grant relevancy by 30% and process effectiveness

KPMG

Mumbai, India

Associate Consultant

April 2023 - July 2023

- Led cross-functional data analysis team to develop modern BI solutions and interactive dashboards using JavaScript framework, reducing operational costs by 15% through data-driven optimization strategies
- Developed and automated legacy licensing platform using ASP.NET, SQL, Python and A/B testing, improving efficiency 20% and reducing processing time 60%

Analyst

July 2021 - Mar 2023

- Developed and implemented interactive web platform that fully automated complex licensing processes using Python, SQL, JavaScript, reducing overall processing time by 60%
- Created frontend dashboards and visualizations using JavaScript, REST APIs, and advanced SQL analytics to provide enhanced actionable insights, improving stakeholder understanding by 45%
- Led licensing compliance project for publishers across 5 India regions, managing 200+ product entitlements, configuring optimized license parameters through usage analysis to reduce licensing spend 10% while maintaining compliance

Projects

Movie Plot Similarity with NLP | Python

- Employed NLP techniques like tokenization, stemming, and TF-IDF vectorization to transform unstructured plot text into structured numerical data
- Utilized KMeans clustering on vectorized plot data and generated visualizations to uncover relationships between films based on narrative similarities

Inventory Analysis | Tableau, SQL

- Developed and managed a Tableau project centered on inventory analysis, leveraging Tableau's data visualization tools to offer valuable insights into inventory management and optimization
- Created interactive and dynamic inventory dashboards, visualizing key metrics like turnover, stock levels, and trends, allowing for detailed product-level analysis and real-world inventory data utilization

Statistical Modelling for Property Valuation | R

- Developed multiple regression models using R to estimate property values based on housing features. Steps included data cleaning, feature selection, model validation and tuning Random Forest algorithm to optimize predictive accuracy
- Constructed end-to-end machine learning workflow from data preprocessing to training models to generating price predictions on new data. Applied skills in statistical analysis and modeling to tackle real-world prediction problems

Yelp Dataset ETL and Analysis | Python, SQL, Azure

- Accessed Yelp dataset JSON files via Kaggle notebooks, loaded data into pandas dataframes, provisioned Azure MySQL database, and utilized SQL, sqlalchemy for ETL process to extract, transform and load data from JSON into cloud MySQL
- Performed exploratory data analysis and visualization within Jupyter notebook using pandas, matplotlib, seaborn, and SQL queries on integrated dataset to generate insights from Yelp data

Technical Skills

Languages: Python, SQL, R, SAS, JavaScript, HTML/CSS, Bash, Wolfram

Databases: MySQL, PostgreSQL, MongoDB, Oracle, HDFS

Analytics Tools: Tableau, Microsoft Excel, Amazon AWS Services, Google Cloud Platform, Knime, Hadoop, Spark

Certifications: Microsoft Azure Fundamentals