

VARSHIL R. MEHTA

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EDUCATION

Pace University – School of Computer Science

New York, USA

MASTER OF SCIENCE IN DATA SCIENCE

Expected Dec 2024

Key courses: Advanced Machine Learning, Scalable Databases, Deep Learning, Algorithms for Data Science, Data Mining

S.V.K.M Usha Pravin Gandhi College of Science, University of Mumbai

Mumbai, India

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

Oct 2020

Key courses: Mathematical Foundation of Analytics, Database Management, Data Structures and Algorithms, Computational Mathematics

TECHNICAL SKILLS

Languages: Python, R, SAS, C, C++, SQL, HTML5, CSS3, Java8, Scilab

Quantitative Skills: Statistical Analysis (Linear Regression, Logistic Regression, t-tests, Chi-square), Forecasting and Predictive Analytics (Decision Trees, Random Forest, Exponential Smoothing), Database Management (Joins, Indexing, Stored Procedures)

Databases/Servers: Oracle, PostgreSQL, OpenCV, Keras, Hadoop, MongoDB

Analytics & BI Tools: Tableau, Power BI, Google Analytics, Git, Gitlab, Kubernetes

Platforms: Windows, Microsoft Azure, Unix, Google Cloud Platform, AWS

WORK EXPERIENCE

Powerweave Software Services Pvt. Ltd.

Mumbai, India

DATA ENGINEER INTERN

Feb 2023 – May 2023

- Developed and implemented business strategies utilizing the Apriori algorithm to enhance the customer shopping experience for E-Commerce retail shops. Analysed vast datasets to identify patterns and trends, resulting in a 12% increase in cross-selling and a 19% boost in average order value.
- Proposed and executed promotional discounts for frequently co-purchased items, driving sales by 40% and enhancing customer satisfaction.
- Orchestrated cross-functional collaboration to implement algorithmic solutions, enhancing E-Commerce platform usability; optimized performance metrics by increasing user engagement by 40% and reducing bounce rate by 25%.

Deloitte USI

Mumbai, India

ASSOCIATE ANALYST (Full-time)

May 2021 – Dec 2022

- Supply Chain Analytics:** Wrote and ran Oracle SQL queries to correct and manage supply chain data for daily reporting to reflect the latest inventory levels. This ongoing activity helped retailers and warehouses monitor the supply of items to efficiently redistribute inventory levels in overstock situations and eliminate stockout situations. Generated 70+ functional and technical specification reports to show the product supply flow for their franchise stores in the US, leading to improved decision-making and streamlined processes.
- Pharmaceutical Forecasting:** Applied data preprocessing and feature engineering techniques such as Interaction features, text vectorization, and label encoding which resulted in a 15% accuracy of predictive models that suggested the root cause of the illness based on the user's symptoms. Spearheaded a data quality initiative by conducting a thorough analysis of customer databases, eliminating duplicate records, resulting in a 25% increase in sales conversion rates and a 20% improvement in customer satisfaction scores.

Your Learning Platform

Mumbai, India

DATA ANALYST (Full Time)

July 2020 – April 2021

- Designed and maintained interactive PySpark dashboards to monitor metrics like course recommendations, viewership, and subscriber count; leveraged historical revenue data to drive data-driven decisions on future course offerings, fueling in a 20% increase in revenue.
- Worked with cross-functional teams to develop and deploy 8 Sales Performance Management solutions, resulting in a 20% increase in sales productivity and a revenue growth of \$500,000 by selling educational resources and courses on a digital platform.
- Conducted comprehensive data profiling and data cleansing activities to ensure data accuracy, completeness, and consistency.

Equisseed Wealth

Mumbai, India

DATA SCIENCE INTERN

Oct 2020 – Jan 2021

- Cleaned and transformed data to develop predictive models to present findings and investment recommendations to clients in the stock market, demonstrating a deep understanding of both technical and financial aspects.
- Performed a thorough data cleaning and preprocessing to enhance predictive model accuracy by 20% and evaluated model performance with precision metrics, fine-tuning algorithms such as time series analysis and ensemble methods to forecast stock prices and market trends.
- Utilized standard statistical methodologies like hypothesis testing and regression analysis to analyse data, drawing meaningful insights and crafting comprehensive written summaries elucidating the outcomes of data analysis to figure out the best investment in stocks for the clients.

CERTIFICATIONS

Certifications: GNIIT Program in Software Engineering by NIIT institute, Google Cloud Big Data & Machine Learning Fundamentals on Coursera, Microsoft Excel Data Analytics, Data Science Real Life Experience, Digital Marketing by Google garage, Artificial Intelligence by TCS Ion.

ACADEMIC PROJECTS

- Insurance Fraud Prediction:** Researched, applied, and executed predictive analytics model to identify and mitigate insurance fraud risks. Utilized the Random Forest algorithm to analyse historical insurance claims data and identify fraudulent patterns. Implemented extensive feature engineering and model tuning, achieving an accuracy rate of 89%. (Oct'2020)
- Property management system:** Established a comprehensive property management system with features including data fetching from various online sources, visualization, analysis, and email delivery. Implemented connection to PostgreSQL database, Docker containerization, CRUD operations, data visualization with seaborn and matplotlib, and email functionality with attached PDF reports. (Mar'2020)
- Chatbot using Google Dialogflow:** Built a conversational chatbot using Google Dialogflow, integrating machine learning for natural language understanding. Achieved 92% accuracy in responses through thorough testing and optimization. This involved fine-tuning parameters, refining training data, and optimizing the chatbot's neural network models. (Apr'2019)