

ROHAN SINGH

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EDUCATION

Boston University - Masters of Science in Applied Data Analytics	01/2025
M.P.S.T.M.E, NMIMS - MBA in Operations and Supply Chain Management	07/2020 - 05/2022
M.P.S.T.M.E, NMIMS - Bachelors of Science in Information Technology	04/2016 – 03/2020

SKILLS

Software Tools: Power BI, Tableau, Microsoft Excel, Looker, Apache Superset, Jupyter Notebooks, AWS Sagemaker, AWS S3, Databricks, Google BigQuery, Docker, Kubernetes, Azure DevOps, GitHub, Jenkins, Linux, SAP ERP, Oracle ERP.
Programming Languages: Python, R, SQL, JavaScript, HTML, CSS, C, C++, MySQL, MongoDB, Microsoft SQL Server.
Frameworks: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Keras, PyTorch, Flask, Dash, Plotly, pytest, MATLAB.
Statistical Analysis: Statsmodels, Bayesian Statistics, Hypothesis Testing, Inferential and Descriptive Statistics.
Financial Modelling & Analysis: Sharpe Ratio, Value at Risk (VaR), Monte Carlo Simulations, Modern Portfolio Theory.
Additional Skills: Machine Learning, Design Thinking, Geospatial Analysis, Predictive Analytics and Modeling, Agile Methodologies.

WORK EXPERIENCE

Boston While Black Data Analyst	May 2024 - Aug 2024
<ul style="list-style-type: none">Built web applications using Python to streamline workflows for data analysis processes, reducing data retrieval time by 50% and significantly enhancing the organization's ability to monitor member engagement and retention in real time.Implemented AutoML systems using Amazon SageMaker on AWS Cloud to analyze customer churn and acquisition costs, generating detailed, automated reports that reduced manual analysis time by 50%.Deployed a Natural Language Processing based feedback tool to analyze survey responses, delivering insights at both individual and community levels improving engagement strategies and boosted retention with a verified impact of 70%.	
Gartner Inc. Data Analyst	March 2022 - Jun 2023
<ul style="list-style-type: none">Analyzed datasets from 90% of Fortune 500 companies using Tableau and SQL, uncovering key trends that optimized Gartner's research methodologies contributing to a 20% improvement in client satisfaction and decision-making accuracy.Automated reporting workflows with VBA and Macros, cutting report generation time by 50% and streamlining tasks like pivot table creation and data visualization in Excel and Tableau, improving team productivity by 30%.Designed dynamic visualizations in Power BI, Tableau, and Looker, simplifying complex survey data into actionable insights for technical and non-technical stakeholders, which improved operational decision-making speed by 25%.	
Indian Oil Corporation Limited Supply Chain Analyst Intern	May 2021 - Sep 2021
<ul style="list-style-type: none">Developed an advanced cost-optimization model using Excel Solver, reducing bulk LPG transportation expenses by 5% while improving logistics flexibility to handle last-minute operational changes, enhancing overall supply chain.Automated supply route optimization and demand forecasting using Pandas, SQL, and Google BigQuery, cutting transportation time and costs by 15%, while delivering actionable reports.Engineered a predictive machine learning model in Python to calculate the shortest and least-cost LPG delivery routes in northern India, integrating multimodal transportation techniques and increasing delivery efficiency by 20%.	

PROJECTS

Customer Segmentation with AWS and PowerBi
<ul style="list-style-type: none">Developed a customer segmentation model using Python (Pandas, Scikit-learn) and AWS (S3, Lambda), boosting data transformation speed by 30% and increasing targeted marketing effectiveness by 20%.Automated data ingestion workflows with AWS Step Functions, reducing manual efforts by 40%, and designed Power BI dashboards to provide stakeholders with actionable insights for strategic decisions.Designed and implemented clustering algorithms using Scikit-learn to identify distinct customer segments, enabling personalized marketing campaigns and improving customer retention by 15%.
Stock Market Prediction Using Temporal Convolutional Networks (TCN)
<ul style="list-style-type: none">Built a stock price prediction model using Temporal Convolutional Networks in TensorFlow and Pandas, achieving 97% accuracy.Applied Monte Carlo Simulations and Modern Portfolio Theory (MPT) to enhance forecasting accuracy by 20%.Leveraged Sharpe Ratio and Value at Risk (VaR) to evaluate portfolio performance and manage risk, improving financial decision-making and reducing portfolio volatility by 30%.