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

- 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

- 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

- 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.

Gates Corporation| Information Technology Intern May 2019 - July 2019

- Integrated real-time dashboards using **Python**, **Flask**, and **Dash** to monitor machine performance, enabling predictive maintenance and **reducing equipment downtime by 10%** by early fault detection and proactive issue resolution.
- Automated the collection of machine performance metrics and production output using **Python scripts** and **SQL**, boosting **productivity by 15%** and minimizing manual errors, leading to more accurate and efficient data handling.

PROJECTS

Stock Market Prediction Using Temporal Convolutional Networks (TCN)

- Built a stock price prediction model using Temporal Convolutional Networks in **TensorFlow** and **Pandas**, achieving 98% 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%.

CERTIFICATIONS

- Google Data Analytics
- Accenture Data Analyst by Forage
- British Airways Data Analyst by Forage