# Sohail Amer Mohammed

## DATA ANALYST - Data Cleansing & Manipulation, Data Visualization, Statistical Analysis

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## Skills

- **Programming & Querying Languages**: SQL, Python, R, DAX for data manipulation, querying.
- **Data Visualization** : Power BI, Tableau, Looker, InfoGram, Qlik Sense to build dynamic dashboards.
- **Statistical Analysis**: Predictive Analysis, Time Series Analysis, Chi-Square Tests, PCA, A/B Testing, Survival.
- **Machine Learning** : Multivariate Regression, Decision Trees, Random Forest, Neural Networks, K-means.
- **Advanced Excel**: Power Query, Power Pivot, Pivot Tables, VLOOKUP, HLOOKUP, Array Functions.

## Work Experience

**Data Analyst Intern**      **December 2023 − March 2024**
*Wisualyst, Remote, Dubai*

- Conducted descriptive, predictive, and prescriptive analytics on high-volume datasets, delivering 25% improved actionable insights for client decision-making processes.
- Designed and tracked interactive KPIs in Power BI using DAX and SQL, enhancing operational efficiency by 30% through automated, client-specific dashboards.
- Built an automated ETL pipeline in SQL with stored procedures and indexing, improving data processing speed by 10% and supporting the integration of large datasets.
- Provided actionable insights to optimize production workflows, saving the company $300,000 annually and increasing production output by 15%.

**Financial Planning Analyst**      **September 2021 − December 2021**
*ABMC Matrix Project Management, Hybrid, Dubai*

- Streamlined A/P and A/R processes using ERP systems, achieving 100% transaction accuracy and ensuring full compliance with audits.
- Reduced financial discrepancies by 20% through detailed variance analysis, Excel macros, pivot tables, and advanced formulas, boosting project profitability.
- Created Power BI dashboards using DAX and Excel, reducing manual reporting efforts by 30% and providing real-time insights into budget performance.
- Prepared project budgets for 15+ initiatives using forecasting models and what-if analysis, ensuring 100% financial goal compliance and reducing project delays.

## Projects

**Credit Mix Classification and Model Evaluation**      *Data Analyst*

- Analyzed credit data for 12,500 individuals using Python to conduct credit mix prediction analysis.
- Achieved 95% accuracy in predicting credit mix by comparing Decision Tree and Neural Network models.
- Recommended the Decision Tree model based on 95% accuracy, supporting effective credit risk assessment.
- Enhanced workflows by automating data pipelines, reducing processing time by 30% and improving efficiency.

**Product Demand Analysis**      *Data Analyst*

- Built 5 Power BI dashboards using Time Series Analysis to forecast demand trends, improving accuracy by 15%.
- Operated Power Query Editor to clean 20,000+ rows of data, creating 10+ conditional columns for interpretation.
- Linked 6 data tables to derive insights, enabling a 25% improvement in inventory management efficiency.
- Delivered inventory forecasts, reducing stockouts by 12% and improving supply management for retail clients.

**Predictive Modeling for Heart Disease Risk**      *Data Analyst*

- Managed a team of 4 to analyze 5,000+ patient records, uncovering key factors influencing heart disease risk.
- Conducted t-tests, logistic regression, and multivariate analysis to identify 5 key risk factors with 90% confidence.
- Improved model accuracy by 20%, achieving an 85% accuracy rate for heart disease risk assessment tools.
- Recommended strategies for healthcare organizations, reducing misdiagnosis 15% by improving predictions.

## Education

**M.S. in Business Analytics**      September 2022 − May 2024
*University of Massachusetts, Boston, MA, USA*      GPA: 3.6/4.0
**Bachelor of Commerce (Accounting & Finance)**      July 2017 − December 2020
*Osmania University, Hyderabad, India*      CGPA: 7.8/10

## Certifications

- **Microsoft Certified: Power BI Data Analyst Associate**
- **Bloomberg Finance Fundamentals**
- **Google Data Foundations**