NAJWAN MOHAMED

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- Portfolio: snm-najwan.github.io/Portfolio/

Profile Info

Analytical professional with 2+ years of experience in Python, SQL, and Power BI, automating workflows (+20 hours/month saved) and driving data-driven decisions. Certified by Stanford and IBM in Machine Learning and Data Science. Passionate about deploying scalable AI/BI solutions in high-growth industries.

Education

DEC 2017 - AUG 2022

Bachelor of Science Degree in Statistics and Operations Research | University of Peradeniya | Kandy.

Experience

FEB 2023 - PRESENT

Data Analyst | Fair First Insurance Limited | Union Place, Colombo

- Automated 15+ recurring reports using VBA and Power Automate, saving over 20 hours/month in manual effort.
- Built 6+ Power BI dashboards to track claims and performance KPIs, improving team efficiency by 30%.
- Collaborated with cross-functional teams (finance, claims, IT) to deliver actionable insights for strategic decisions.
- Used Power Query to clean and transform large datasets, enabling faster and more accurate reporting.
- Supported underwriting and compliance teams with ad-hoc data analysis and interactive dashboards.
- Wrote SQL queries to extract data from enterprise systems and cloud platforms as part of daily workflows.

Certifications

AUG 2022 - PRESENT

- **Machine Learning & AI**:
    - Advanced Learning Algorithms – Stanford University (2024)
    - Supervised ML: Regression & Classification – Stanford University (2024)
    - Python for Data Science and AI – IBM (2023)
- **Data Analysis & Visualization**:
    - Data Analysis with Python – IBM (2023)
    - Data Visualization with Python – IBM (2023)
    - Data Visualization and Dashboards with Excel and Cognos – IBM (2023)
    - Excel Basics for Data Analysis – IBM (2023)
- **Databases & Programming**:
    - SQL for Data Science – IBM (2023)
    - Introduction to RDBMS – IBM (2022)
    - R Programming – Johns Hopkins University (2023)

Technical Skills

- Programming: Python, SQL, R
- Data Visualization: Power BI, Tableau, Matplotlib
- Machine Learning: Scikit-learn, TensorFlow
- Automation: Power Automate, VBA, Power Query
- Tools: Git, Jupyter, Azure
- Other: Statistical Modeling, Business Intelligence, Report Automation, Problem Solving

Projects

- **Predictive Modeling for Bodyfat Estimation**
    - Developed and benchmarked 3 regression models (MLR, NN, Least Squares), achieving lowest RMSE (2.89) with Neural Networks.
    - Concluded MLR was 90% as accurate as NN but more interpretable—critical for clinical adoption.
- **Statistical Analysis for Business Growth| R, ARIMA, wordcloud2, tm**
    - Utilized R for data mining, cluster analysis, and time series forecasting, employing techniques such as K-means clustering, association rule mining (Apriori algorithm), and ARIMA modeling
    - Data-driven recommendations to boost sales by 20% through strategic inventory and marketing adjustments.