WALID RAAD
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Portfolio Website:
https://wraad.github.io/walid-raad.github.io

💼 PERSONAL STATEMENT

A data-driven engineer who observes the world through filters of efficiency, efficacy, and effectiveness. Over the years, I have gained expertise in Python, Microsoft Office (Excel in specific), Tableau, SQL and multiple other software (such as MapInfo (GIS) Lingo). Being result-oriented, a team player and an effective communicator are key characteristics of my personality and I thrive on being part of proactive and supportive teams. I have had my share of experience working in different cultures and I´m always looking for new opportunities to sharpen my set of skills.

🛠 TECHNICAL SKILLS

Programming Languages: Python, SQL, SPSS statistics, SPSS modeler, STATA

Data Visualization Tools: Tableau, MS Excel, Plotly

Other Tools: MS office (PowerPoint, Word, Outlook, Excel), MapInfo (GIS)

Data Analysis Tools/Libraries: Pandas, NumPy, Matplotlib, Seaborn, Scipy

ML Libraries/Techniques: Scikit-learn

Soft Skills: Report Writing, Teamwork, Critical Thinking, Communication

⋯ FEATURED PROJECTS (Link to my website: https://wraad.github.io/walid-raad.github.io)

AI / ML Hackathon, 1st Place out of 54 participants, Birmingham

Worked on a Data science problem in healthcare by developing an efficient data mining pipeline to (potentially) predict new, previously unknown epitopes for the parasite causing potentially fatal illness - Chagas disease. Features – 390, Observations – 80,000. Link to hackathon portfolio: Hackathon portfolio | Devpost

Predicting the UK's Accident Severity

Analyzed the 2019 public domain data for the classification problem of predicting the severity and point of impact using machine learning methods such as decision tree classifier, random forest, logistic regression and XG-boost with the help of python. Feature engineering was also performed for optimizing the model.

Link: GitHub Repository

Applied Several Statistical techniques using SPSS & Excel to tackle different business objectives. Github Repository BA

- Logistic regression – Predicting the spender type for a big shopping company based on collected data

- Conjoint analysis – Market feedback research to target the best product options for customers

- Cluster analysis – Customer segmentation for a banking company based on their banking behavior and risk

- Time series forecasting with decomposition – Predicting customers over consecutive months in an airline based on seasonal factors

- ARIMA models for forecasting – Forecasting COVID cases based on historical data, using lags

- Artificial Neural Network – Predicting stock price to a high degree of accuracy by building a neural network model based on historical data.

EDUCATION

MSc | Aston University (Post Graduation) – 2022

Course: MSc Business Analytics. (Grade Achieved: Distinction)

Relevant Modules: Data mining (89/100), Business analytics in practice (82/100), Big data for decision making (73/100), Performance analytics (73/100), Software analytics (73/100), Decision models (71/100), Descriptive analytics (70/100), Effective management consultancy (68/100)

Dissertation Topic: Credit card Fraud Detection using Machine Learning (70/100)

B. E | Lebanese American University (Graduation) - 2019
Course: Industrial Engineering
Relevant Modules: Advanced Statistics, Supply Chain Management, Probability & Statistics, Optimization, Deterministic and Stochastic Operations Research, Decision Analysis, Calculus 3 & 4, Programming

WORK EXPERIENCE

Data Analyst | Operation Research in Health Ltd.   Apr 2023 to Present

Outline:

Working as an Analyst for a leading consulting firm in emergency services with clients from all over the UK, Canada and Australia. Responsible for conducting thorough analysis to help them optimize resource use, improve response time and predict future demand.

Key Responsibilities:

- Utilizing statistical techniques to interpret data, analyze results and produce comprehensive reports.
- Evaluating complex data sets in order to identify, analyze and interpret trends and patterns.
- Communicate effectively within the emergency service sector in order to make sure their questions and concerns are effectively being addressed through the data.

Key Achievements

- Performed thorough analysis of medical helicopter service in New South Wales. By employing various statistical techniques and utilizing tools such as SQL, excel and Mapinfo (GIS software), I was able to uncover critical insights resulting in an annual savings of £20 million.
- Developed automation script using Python that was highly efficient in preparing the CAD data and delivering the required statistics with a click of a button - Improving productivity by 20%.

Public Relations Manager | Enactus Aston   Feb 2022 to Aug 2022

- Engage with multiple external stakeholders
- Stay up to date with project completeness
- Engage with partner organizations and handle meetings
- Identify areas of growth
- Worked on a new project called online marketplace with my team leader to create a website that would help refugees set up their business online and expand it to a wider audience.

Spatial data collection and management | Lebanon Reforestation Initiative   Jan 2021 to Aug 2021

- Collecting, sourcing, and cleaning spatial data in excel and python
- Performing exploratory, descriptive, and predictive data analysis
- Preparing comprehensive visualizations using Tableau or python libraries to communicate business insights
- Articulating and justifying relevant insights to support decision-making and suggest recommendations