QASEM AL HIJJI

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https://qasem215.github.io/

>> DATA SCIENCE | MACHINE LEARNING

MOTIVATION

*I am passionate about solving business problems using Data Science & Machine Learning. I **systematically** & creatively use my skillset to add tangible value to the team, the business, and the end-user. I am constantly learning, and always looking to improve.*

SKILLS & TOOLS

Programming: Python (Base, Pandas, Numpy, Matplotlib, Scikit-Learn, Keras), SQL, R, Matlab

Machine Learning: Linear Regression, Logistic Regression, Decision Trees, Random Forest, KNN, k-means, PCA, Association Rule Learning, Causal Impact Analysis

Other: Statistics, Github, Data Visualization, MS Office, Tableau, Jupyter Notebook

EXPERIENCE

Senior Data Analyst - SABIC

JANUARY 2021 - PRESENT

- To monitor critical data of all manufacturing plants, I built dashboards for end-user and high management levels using data collected from PIAF & SQL Server. These dashboards highlighted which parameters were exceeded for the end-users and which plants were exceeding these limits to the higher management. This helped maintaining the plants within safety operating ranges, and reduce unplanned shutdown days by 23%.

- Engaged with multiple levels of stakeholders to increase awareness and plant performance by reducing the alarms that occur in operator panels, which led to increasing overall site maturity by SABIC standards from 2 to 3.

Data Analyst - SABIC

AUGUST 2019 - JANUARY 2021

- Used Excel & PIAF to collect, analyze and summarize plant data to identify process gaps and areas of improvement, correcting the identified gaps led to savings of more than $1.5M per annum, while increasing plant efficiency, reliability and reducing environmental impact.

PROJECTS

Enhancing Targeting Accuracy Using Machine Learning

- Created & applied a machine learning algorithms in Python to identify which grocery store customers were more likely to sign up to a grocery delivery service using classification models (such as Random Forest and KNN) allowing the client to mail a more targeted selection of customers, reducing costs and increasing ROI

"You Are What You Eat" Customer Segmentation

- Used k-means clustering on grocery transaction data to split out customers into distinct "shopper types" that could be used to better understand customers over time, and to more accurately target customers with relevant content & promotions

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EDUCATION

BEng (Chemical Engineering)
2015 - 2019 - University of Birmingham, UK

COURSES & CERTS

DATA SCIENCE INFINITY

Actionable Learnings: Extracting & manipulating data using SQL. Application of statistical concepts such as hypothesis tests for measuring the effect of AB Tests. Utilizing Github for version control, and collaboration. Using Python for data analysis, manipulation & visualization. Applying data preparation steps for ML including missing values, categorical variable encoding, outliers, feature scaling, feature selection & model validation. Applying Machine Learning algorithms for regression, classification, clustering, association rule learning, and causal impact analysis for measuring the impact of an event over time. Machine Learning pipelines to streamline the ML pre-processing & modelling phase. Deployment of a ML pipeline onto a live website using Flask & Heroku. Turning business problems into Data Science solutions.

GOOGLE DATA ANALYTICS

Actionable Learnings: Asking SMART questions to guide data analysis. Collecting data from various resources such as kaggle, BigQuery database and Data.gov. Extracting, cleaning and manipulating data using BigQuery, R and spreadsheets. Sharing data through visualization using Tableau, R and spreadsheets. Applying all of the learnings on a capstone project to analyze a bike sharing company's data about customer types and how to attract more subscribers.

KAGGLE

Actionable Learnings: Manipulating data types, creating functions and loops with conditional statements in python. Dealing with missing values, grouping, sorting and summarizing data using pandas. Data visualization using scatter plots, histograms, bar charts and heatmaps using Seaborn in python. Understanding features and their affects on machine learning models, by creating new features using principal component analysis and target encoding to boost the use of categorical features.