Data Scientist

AHMED ALI

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Germany, Aachen, 52074

Education

MASTER OF DATA SCIENCE – RWTH Aachen – Germany, Aachen   September 2023
Majors: Computer science, Data science, Machine Learning
Thesis: Data integration in a data lake system

BACHELOR OF COMPUTER SCIENCE – Alexandria University – Egypt, Alexandria   June 2018
Majors: Computer science

Skills

- **SQL (SQL Server, MySQL, PostgreSQL)**
- **Python (Pandas, NumPy, SciPy, MatPlotLib, Scikit-learn, NLTK)**
- **Tableau**
- **Statistical Modeling**

- **Machine Learning**
- **A/B Testing**
- **GCP**
- **Docker, Git**

Work Experience

DATA SCIENTIST – DXFACTURE – Germany, Aachen   Feb 2022 - Present

- Developed a comprehensive **Tableau** dashboard for SweetConnect, showcasing CO_2 emission and product pricing data, enhancing the company's ability to make environmentally conscious and cost-effective decisions.
- Collaborating with customers on projects to analyze and merge data from multiple **Excel** files.
- Conducted correlation and regression analysis to investigate the impact of external temperatures on factory machinery power consumption, thereby enhancing power usage estimates through accurate weather forecasting.

SOFTWARE ENGINEER – Exporto – Germany, Aachen   April 2022 - November 2022

- Optimized **SQL** queries to double the speed of search operations, significantly enhancing the user experience for Exporto customers.
- Designed and developed a global category search feature, boosting parcel processing efficiency for warehouse staff.

SOFTWARE ENGINEER INTERN – Amazon – Germany, Berlin   September 2021 - February 2022

- Designed, implemented (**React**), and tested (**Cypress – Enzyme**) advanced filters for AWS QuickSetup services, boosting customer engagement.
- Enhanced the user experience for QuickSetup, optimizing the user journey from the AWS website through service creation.
- Streamlined the development process by implementing a new workflow for **AWS Synthetics**, reducing the team's development time by 5% by enabling local testing without deploying code to gamma first.

DATA SCIENTIST – EJADA – Saudi Arabia, Riyadh   July 2018 - March 2020

- Collaborated with the business intelligence team to create a comprehensive dashboard using **SQL** and **Tableau**, effectively summarizing tax payments across various groups and tax types, enabling stakeholders to gain valuable insights and make informed decisions regarding taxation strategies.
- Acted as an external resource for the data engineering team, successfully delivering 20+ **ETL** packages to production using Microsoft **SQL** and SSDT, contributing to the efficient management and transformation of data for enhanced business analytics and decision-making processes.
- Created a data pipeline to clean and merge tax registration data from various Excel files, resulting in a **Tableau** dashboard that provided a timeline of tax submission information for analysis and decision-making purposes.

Selected Projects

CHURN-PREDICTION – Personal Project – Germany, Aachen, [Link](#)   June 2023

- Analyzed extensive user data to predict user churn, a crucial metric in the gaming industry. Utilized exploratory data analysis and feature engineering to develop significant features, and applied machine learning models like Logistic Regression and Random Forest, achieving a high accuracy of 96% in churn prediction.

ESTIMATE DELIVERY TIME – Personal Project – Germany, Aachen, [Link](#)   May 2023

- Conducted **exploratory data analysis** to identify key trends, including peak demand times and differences in delivery times across various markets, thereby gaining insights into factors influencing delivery times.
- Implemented machine learning algorithms like **Linear Regression** and **Random Forest** to predict delivery times, optimizing model performance through **feature selection** and hyperparameter tuning.
- Utilized statistical methods such as **best subset selection** and **p-value** calculations to identify and select the most relevant predictors for the model, improving model accuracy and interpretability.

SENTIMENT ANALYSIS ON REVIEWS – Personal Project – Germany, Aachen, [Link](#)   February 2023

- Utilized **Python** to perform sentiment analysis on 14,000 reviews on IMBD.
- Applied deep learning to produce a final model with an accuracy of 88%

A/B TESTING EMAIL-SIGN-UP – Personal Project – Germany, Aachen, [Link](#)   December 2022

- Designed and executed an **A/B test** for Urban Wear's pre-launch email sign-up page, using **Python** and **statistical methods** to compare the effectiveness of different submit button colors.
- Analyzed test results to provide data-driven recommendations, enhancing decision-making processes and maximizing email collection efforts.

MUSIC RECOMMENDATION ENGINE – Personal Project – Germany, Aachen, [Link](#)   December 2022

- Designed and developed a personalized music recommendation engine, leveraging public Spotify datasets and a **machine learning (KNN)** algorithm, and utilized **Python** for **data cleaning** and **scraping**.
- Hosted the application on Streamlit, enabling personalized music recommendations for users.

SOLAR ANALYSIS FOR SOUTH GERMANY– Fraunhofer IAIS – Germany, Bonn, [Link](#)   November 2022

- Conducted comprehensive **data analysis** on solar energy production in Bayern and Baden-Württemberg, utilizing **data cleaning** and **web scraping** techniques to gather relevant information, and examined factors such as tax incentives and potential solar station locations.
- Provided valuable insights to support research initiatives at Fraunhofer IAIS, contributing to the identification of key areas of study related to solar energy production in the region, leading to the initiation of new research questions and projects.

Achievements

- Google Cloud Machine Learning Engineer specialization (Coursera)
- 3rd place at Meta hackathon 2021 (3/10 teams)
- NLP Specialization (Deeplearning.ai)
- NLP Nanodegree (Udacity)
- Leetcode Monthly badge (3x)