AHMAD HELAL

Data Scientist

A Data scientist having high passion for the data science field with work experience in data analysis, visualization, and machine learning models. I'm excited to apply my passion for data science to the collaborative efforts of a team focused on insightful, high-quality machine learning models, data analytics and visualizations

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Education

University of Nottingham

Master in Engineering in Civil Engineering

September 2013 - May 2018

Skills

- Python (Numpy, Pandas, Matplotlib, etc..)
- Machine Learning (Supervised & Unsupervised learning models, Neural Networks)
- Tableau
- SQL
- HTML & CSS
- Microsoft Office

Certifications

- Open Data / ML Internship Program by Fixed Solutions CO.
- Machine Learning Specialization by Stanford and Deeplearning.AI (Supervised : Regression and Classification,) _ (Advanced Learning Algorithms: Neural Networks, Random Forest) _ (Unsupervised, Recommenders, and Reinforcement Learning)
- EGYPTFWD Data Analysis Proffessional Nanodegree
- Kaggle Machine Learning Course
- Computer Science-CS101 by Stanford university
- Database Fundamentals by (Maharatech Institute)
- Data Analysis- Web Development- Digital Marketing (Challenger Track) from Udacity

Work Experience

Fixed Solution Co. | *Data Scientist*
November 2022 - March 2023

- Preliminary processing, cleansing, analysis, and visualization of data to gain insights and drive recommendations that would help in business decision-making.
- Implementing machine learning models for 3 different applications which include predicting customers income, missing values imputation, and customers segmentation.
- Presenting analysis results and recommendations to top team leaders and members.

Projects

Customer Personality

Analysis and segmentation of Customers

- KAnalyze the company's customers behaviors (using pandas & Numpy), to modify products according to the specific needs and behaviors of different types of customers.
- Categorized customers into 4 different segments based on different features using various statistical methods and clustering machine learning models (e.g. K_Means, DBSCAN, K_Prototype) to find the best possible segmentation of customers.
- Compared between the different clustering methods and the different clusters of customers to identify common features for each cluster.

European Football Leagues

Investigation and analysis of Top 11 football leagues in Europe.

- The database (obtained from Kaggle) contains data for soccer matches, players, and teams from several European countries from 2008 to 2016. Analysis was carried on 11090 players and 25979 matches played in 11 different leagues during this time period.
- Data extraction was carried using SQL queries to obtain the required fields and columns by merging different tables.
- Data Cleansing and analysis was carried using python and libraries such as (pandas, matplotlib, seaborn etc..).
- Explored the dataset to gain insights and acquire some interesting information such as :
- Top 10 rated players, leagues and teams, most scoring teams and leagues, least conceding teams, etc..

Ford-Go Bikeshare

Business and Customers Analysis

- Implemented analysis of the bikeshare data using Python(Numpy and Pandas) and visualized the relations on graphs using seaborn and matplotlib libraries to recommend actions for better exploitation of the bikes (75% of bikes had less than 50 trips).
- Implemented Datawig machine learning model for missing value imputation on the dataset on both numerical and categorical dataset.
- Visualization of the summarized analysis of bikeshare data on an interactive dashboard using Tableau. This included presenting the location of stations, count of trips and distance covered using different filters for further exploration.