KHAWAJA HASSAN ABBAS

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Github: https://github.com/Khawaja9622?tab=repositories

ACAMEDIC PROJECTS

Course: Thesis Research Paper

- Employing *Machine learning alogorithms* on time series data to predict the hourly orders in the cpming next hour based on the trends and other exogenous factors. The link of official thesis summary is provided in the following Here

Course: Data Engineering with MySQL

- Project 1: Created an *operational data layer* in MySQL from the relational dataset (European Soccer League). Then designed an *analytical layer* – a denormalized data structure using the operational layer to create a table in MySQL. Constructed an *ETL* pipepline using Triggers and Stored Procedures and created Views as *Data Marts.* Project report can be found on my GitHub here
- Project 2 (Group Project): Created a KNIME-based workflow using 3 data sets, 2 of which were accessed throughs online APIs. Constructed an ETL pipline in MySQL to render a datatable. Using this datatable, analysis was performed and visualization were generated. Project report can be found on my GitHub Here

Course: Data Analysis 2: **Finding patterns with Regression**

- Project delieverable included finding the association of a dependent variable (y) with the explanatory variable (x) including confounding variables (z) based on the cross-sectional dataset on supermarket sales. After performing Exploratory Data Analysis (EDA) several OLS regression models were created each included different categorical and numerical variables. The association of how the prices of used Honda Civic Oriel 1.8 i-VTEC variate on the bases on their total mileage. Project report can be found on my GitHub here

Course: Data Analysis 3: **Prediction & Machine Learning Analysis**

- Build several price prediction models using Airbnb's cross-sectional dataset for the city of Milan, Italy. Evaluated the performance of each prediction model and made recommendation of the best models based on RMSE and BIC values. Project report can be found on my GitHub here

Course: Data Engineering 2: Cloud Computing

- Conducted a sentiment analysis comparing 2 newspaper articles on a similar news using Amazon Web Services (AWS) tool; *Amazon Comprehend*. Project report can be found here

Course: Web Scrapping using R

- Scraped all of information presented on PayScale website about each specific industry. Arranged them alphabetically. The information was then to be added in a dataframe which was then stored into and RDS. Visualizations were plotted of the some parameters from the created the dataframe as well. Project RMD can be found Here & Report Here

Course: Data Visualization in Tableau

- Created 3 page interactive dashboard using Human Resource dataset provided in the course to answer a number of analytical questions about the company resources. Visualization included bargraphs, donut charts, geo-maps and area-under-the-graph charts. Incorporated filters, drill down and visual tooltips. Project report can be found on my GitHub here