

# Haifa Najdawi

## Professional Summary

Computer Whiz and Top of the Class Software Developer and Data Analyst. Enthusiastic Team player. Proven mentor, with a high attention to details and a track record of translating design ideas into technical applications.

## Projects & Experience

**Machine Learning (ML) to Netflix tv shows & movies** Remote  
[ [https://github.com/HaifaNajdawi/The\\_big\\_chill](https://github.com/HaifaNajdawi/The_big_chill) ].

- **Summary of the project:** User can enter tv show or movie description to predict that description's rating & OMDB genre.
- **The task:**
  - Data visualizations & analysis using Matplotlib and seaborn.
  - Machine Learning using Scikit-Learn and TensorFlow.
  - API built in Flask app.
  - AWS RDS set up to load our database.
  - Using Heroku to deploy our application by creating Procfile and put libraries in requirement text file.
- **Tools/Languages:** Flask, Python, JavaScript, HTML, Jupyter notebook, Git and VS code.
- **Deployment:** Heroku [ <https://the-big-chill.herokuapp.com/> ].
- **Databases:** PostgreSQL and AWS RDS in cloud.

### Tourism statistical analysis Project

[ [https://github.com/ewatxc82/tourism\\_statistical\\_analysis](https://github.com/ewatxc82/tourism_statistical_analysis) ]

- **Summary of the project:** The main goal of this project is to plot and provide insight regarding publicly available tourism data in Europe. Our main areas of concentration include the number of arrivals documented and tourism specific revenue generated for each European country available in the dataset. We seek to better understand the economic impact of tourism in various European countries over our selected time, 1995-2019 and shed light on which countries generated the most tourist traffic and revenues.

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GitHub: <https://github.com/HaifaNajdawi>

Portfolio: [haifanajdawi.github.io/](http://haifanajdawi.github.io/)

## Skills and Tools

### Languages

- Python
- R
- JavaScript

### Data and ML

- Pandas
- NumPy
- Scikit-Learn
- TensorFlow
- SQL
- MongoDB
- Tableau
- VB and advanced Excel
- Matplotlib
- Linear Regression
- Logistic Regression
- K Means
- Random Forest
- Support Vector Machine
- Sequential

### Deployment

- AWS Cloud Services
- Heroku
- GitHub
- GitLab

- **The task:**
  - Using pandas to transform the data, clean it up by deleting columns we do not need and null values, then load these tables to PostgreSQL and join them into a mutual column.
  - Then used flask as a web framework and developed two API's the first query is the arrival data from Postgres and was formatted in json format and is sent back in the response, the second one does the exact same thing, but for revenues data, Also, used flask to render the html pages and other static files like JS and CSS.
  - Used Heroku for hosting application and database. For database Heroku provided a Postgres database and to load the data on this database took backup from local Postgres database and restored it on the Heroku's one. Also, hosted a flask app on Heroku by giving Heroku access to GitHub repo and required dependencies put it in the requirements file and Heroku took care of all deployment processes.
  - Use Plotly library to create a choropleth map.
- **Tools/Languages:** Flask, Python, pandas, JavaScript, HTML, Jupyter notebook, Git and VS code.
- **Deployment:** Heroku [ <https://europetourism.herokuapp.com/> ].
- **Databases:** PostgreSQL.

ETL Project | [ <https://github.com/travisstowell/ETLProject> ]

- **Summary of the project:** Main goal of this project is how to Extract the data, then Transform data, finally Load it to the database.
- **The task:** Using pandas to transform the data, clean it up by deleting columns we do not need and null values, then load these tables to PostgreSQL and join them into a mutual column.
- **Tools/Languages:** Python, pandas, Jupyter notebook and git.
- **Databases:** PostgreSQL.

#### Criminal Weather Denver

[ [https://github.com/mnolker/Criminal\\_Weather\\_Denver](https://github.com/mnolker/Criminal_Weather_Denver) ]

- **Summary for the project:** Our project focus does the weather have an impact on a crime. Find if there is a correlation in non-traffic crime in the city of Denver compared to various weather conditions (Average temperature, Wind speed, Cloud cover and Precipitation inches).
- **The task:** Create account on worldweatheronline.com to pull data that need it for variant weather by city name using API for every day from 1/1/2016 to 8/31/2020, Create scatter plot and calculate r values, generate pivot tables for multiple weather condition then plot it using bar chart.
- **Tools/Languages:** Python, Jupyter notebook and git.

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## **Web and Mobile**

- HTML
  - CSS/SCSS
  - Mongo
  - API
  - Plotly.JS
  - Leaflet.JS
  - D3
  - Flask
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## ***Education***

### **University of Kansas - 2021**

Lawrence, KS

Data Analytics, Data Visualization, and Machine Learning

### **University of Jordan**

Amman, Jordan

Bachelor's Degree

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## ***Technologies Used in Recent Projects***

- Python
- Scikit-Learn
- TensorFlow
- Pandas
- Flask
- AWS
- SQL
- Tensorflow.js
- HTML
- JavaScript
- Heroku

Please feel free to ask me about many other projects that I have been a part of.

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## ***Accomplishments***

- Used CSV files to build API getJSON format in Flask to get the map in JavaScript.
- SQL query in python using sqlalchemy to create visualization charts.
- Create many charts in Tableau telling story next loaded it to Tableau public then use the link to embed in HTML page.
- Scrape Nasa Science Mars to get latest news, facts, and images for each of Mar's hemispheres using splinter and pandas.
- Using many machine learning models (KNeighbors Classifier, Support Vector Machine, Random Forest, Logistic Regression, and deep learning Sequential model) then using GridSearchCV model to find best parameters & best score.