Navid Mashinchi

Data Scientist

+ Personal Info

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GitHub
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https://www.navidma.com

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+ Skills

Data Science: Python, R, Scikit-learn, TensorFlow, Keras, Pandas, NumPy, Seaborn, Matplotlib, Folium, Plotly, Bokeh, GeoJSON, Streamlit.

Databases: *SQL, MongoDB, N*oSQL, Relational Algebra, ER Modeling.

Web Development: JavaScript, HTML 5, CSS3, Bootstrap, Node.JS, Heroku, Jasmine.

Others: GitHub, Git, SportsCode.

Personal Skills: Disciplined, responsible, highly motivated with the ability to work individually or within a team environment.

+ Languages

English

Native or bilingual proficiency

German

Native or bilingual proficiency

Farsi

Professional working proficiency

+ Blogs

03/2021
The Current State of COVID-19 From 3 Different Perspectives

02/2021
How to step up your Folium Choropleth Map skills

11/2020
An Examination of Fatal Force by Police in the US

09/2020
Predicting number of Covid19 deaths using Time Series Analysis (ARIMA MODEL)

+ Education

09/2019 - present

University of Denver - Master's in Data Science

- Anticipated graduation date: August 2021
- GPA: 3.91
- Relevant Courses: DS Mathematics 1 & 2, DS Statistics 1 & 2, Database Organization & Management I, Algorithms, DS Tools 1, Machine Learning, Data Mining, Data Visualization.

08/2018 - 08/2019

Bloc - Full Stack Web Development Certification

- Modules included: Front-End & Back-End Fundamentals, Front-End Frameworks, Computer Science Fundamentals & Server-Side JS with Node.js.

09/2010 - 12/2015

University of British Columbia - Bachelor of Commerce

- Specialization: Accounting

+ Experience

11/2020 - present

Student Ambassador Data Science Master's Program

University of Denver

- Speak to prospective students via phone or in the virtual classroom.
- Participate in prospective student panel webinars, round tables, and PR opportunities.

01/2015 - 02/2018

Performance Analyst

Vancouver Whitecaps FC

- Attained the MLS playoffs in 2015, 2017, won the 2015 Amway Canadian Championship and advanced to the 2017 Concacaf Champions League semi-final by providing in-depth analytical reports on the opposition to the MLS coaching staff.
- Led the Analysis department after losing the supervisor. Managed the department during the transition phase without a drop-in output by providing consistent analytical services to the coaching and playing staff.
- Improved team's set play goal conversion rate from 13 to 15 goals and defending set play goal against rate from 13 to 7 goals in the 2017 season by designing solutions backed with the opposition analysis insights.

06/2014 - 12/2014

Performance Analyst Internship

Vancouver Whitecaps FC

- Launched the Analysis department's first live stats application for games by customizing an MS Excel spreadsheet that streamed real-time data using Data Streamer add-in to coaching staff's electronic devices.
- Coordinated department's video database by filming and organizing training sessions and games.
- Led a team of 3 interns and trained them on the department's operations procedures.

+ Projects

02/2021 - 03/2021

The Current State of COVID-19 From 3 Different Perspectives | App

Python | Data Visualization Problem

- Developed a real-time dashboard to analyze the current state of COVID-19 from three different perspectives (Globally, WHO Regions, and the United States).
- Gathered data from organizations such as Johns Hopkins University, Centers for Disease Control and Prevention (CDC), Our World in Data, and the World Health Organization (WHO).
- Created advanced Plotly and Folium plots and applied Pandas for data cleaning purposes.
- Published the dashboard using Streamlit.

10/2020 - 11/2020

An Examination of Fatal Force by Police in the US | GitHub

Python | Classification & Multi Classification Problem

- Examined the factors that play into the horrible event of a fatal shooting by the US police.
- Cleaned the data containing 5700 data points, using Pandas and feature engineered, 9 out of the 17 variables that had to be transformed into different types.
- Predicted mental illness status by implementing a Logistic Regression, SVC, SGD, Decision Tree, and Random Forest.
- Improved the accuracy score by 5% by fine-tuning the final model using RandomizedSearchCV.

08/2020 - 09/2020

Predicting number of Covid19 deaths using Time Series Analysis (ARIMA MODEL) | GitHub

R | Time Series Forecasting Problem

- Predicted the number of deaths in the US starting from August 1 – August 21 and August 1 – November 1.
- Cleaned the data made of 34033 rows and 34 columns by selecting the US data points.
- Implemented the differencing technique to make the data stationary to conduct a time series analysis.
- Applied the Augmented Dickey-Fuller Test to ensure the data is stationary and used the ARIMA model for projecting the number of deaths.
- Forecasted 18589 deaths, and CNN projected 19000 deaths between August 1 and August 21.
- Forecasted 235967 deaths, and CNN projected 231000 deaths between August 1 and November 1. The actual death number, according to Worldometer, was 236072.