

MINOO TAGHAVI

Data Scientist & Staff Engineer (Green Card holder)

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ABOUT ME

Data Scientist and Engineer with 5 years of experience in the transportation industry, data analytics and data science fields. Seeking to leverage my engineering expertise, programming and data analysis skills in data science field.

SKILLS

Data Science: Machine Learning, deep Learning, Natural language Processing, Web Scraping, Time Series Analysis, Image Classification, Data Modeling, HTML/ CSS, Data Mining, Data Analysis

Programming: Python, TensorFlow, Scala, HTML, R Programming, MATLAB, MySQL, Oracle, Spark, AWS

Data Visualization: Tableau, Matplotlib, Seaborn, ArcGIS/ArcMap, Plotly, Ggplot, Geoplotlib

EXPERIENCE

Data Science Fellow- General Assembly, Washington DC

AUG 2020- DEC 2020

- Completed 30+ projects and labs utilizing the entire data science workflow, including data acquisition, data cleaning, data visualization, exploratory analysis, feature selection, modeling, and evaluation.
- Conducted natural language processing (using NLTK library in Python) on thousands of scraped Reddit posts to train several classification models to predict related subreddit.
- Built geospatial analysis of areas at risk for COVID-19 and natural disasters in California using python and machine learning techniques (Clustering algorithm) and ArcGIS and Tableau.
- Developed a housing market price model with 94% accuracy using several linear machine learning techniques to predict the sale price of hundreds of houses based on a comprehensive set of features.
- Developed lane detection with deep learning (CNN architecture) with 88% accuracy on test data set using transfer learning and Pytorch library.

Staff Engineer- Applied Research Associates Inc.,

JUL 2018- AUG 2020

On-site Consultant for Maryland Department of Transportation, State Highway Administration

- Addressed customers' (divisions, districts and public) ad hoc requests including pavement network data inquiries.
- Developed and improved data quality management protocols, procedures, and network optimization saving hundreds of man-hours.
- Worked on pavement network data analysis, reporting, mapping, and developed dashboards using SQL, Excel, ArcGIS.
- Developed performance metric evaluation of MDOT SHA roadways using pavement condition and construction history data.

PhD Graduate Research Assistant- University of Maryland, College Park

JAN 2018- JUL 2018

- Studied transportation systems and conducted traffic modeling projects such as modeling traffic flow using PTV Vissim for prediction and improvement of traffic flow.

Project Engineer- Milani Construction LLC, Washington DC

JAN 2017- JAN 2018

- Prepared cost estimates for asphalt pavement and bridge construction projects.
- Participated in construction bidding process, CPM scheduling, takeoffs and estimates.

Engineer- EBA Eng. Inc. - Consultant of MDOT- SHA

JUN 2016- JAN 2017

- Prepared RFIs, material clearance, change orders and progress report.
- Worked on MCMS/MMS programs to manage cost/expense for labors and equipment.

Project Manager Assistant Intern - PWE, City of Houston, Texas

APR 2015- APR 2016

- Worked on cost estimation and scheduling and reviewed field material orders.
- Assisted in inspection and project management of waterline and traffic signalization.

EDUCATION

2014 - 2016 • University of Houston

M.Sc. in Construction Engineering & Management

2009 - 2014 • Ferdowsi University of Mashhad

B.Sc. in Architectural Engineering

CERTIFICATION

- Data Science Immersive Certification- 480 hrs
- ArcGIS Training Certification
- OSHA Construction