MINOO TAGHAVI

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Description automatically generated**Data Scientist & Transportation Engineer**

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Description automatically generated Washington, DC. (202) 604-1905 [minoot7.github.io/MinooTaghavi](https://minoot7.github.io/MinooTaghavi/)

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**ABOUT ME**

Data Scientist and Transportation Engineer with 5 years of experience in the transportation industry, machine learning techniques, deep learning algorithms, and large-scale datasets. 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

*Programming*: Python, TensorFlow, Scala, HTML, R Programming, MATLAB, SQL, Spark, AWS

*Data Visualization*: Tableau, Matplotlib, Seaborn, ArcGIS/ArcMap

**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 (Clustering algorithm) and ArcGIS and Tableau.

• Developed Lane detection with deep learning (CNN architecture) with 88% accuracy on test data set using transfer learning and Pytorch library.

**Transportation Engineer- Applied Research Associates Inc., JUL 2018- PRESENT**

**for Maryland Department of Transportation, State Highway Administration**

• Developed and improved data quality management protocols and procedures saving hundreds of man-hours.

• Worked on pavement network data analysis, reporting, and mapping (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.

**Transportation 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 CERTIFICATION**

**2014 - 2016 • University of Houston** • Data Science Immersive Certification- 480 hrs

M.Sc. in Construction Engineering & Management • ArcGIS Training Certification

**2009 - 2014 • Ferdowsi University of Mashhad** • OSHA Construction

B.Sc. in Architectural Engineering