MAHNOOSH SADEGHI

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EDUCATION

Ph.D. Industrial Engineering, Texas A&M University, College Station, TX   2016-present

B.S., Petroleum Engineering, minor in Economics, Sharif University of Technology, Tehran, Iran   2011-2016

Related Coursework: Regression Analysis, Introduction to Bayesian Statistics, Statistical Computations, Applied Analytics (Deep Learning with SAS), Engineering Economics

EXPERIENCE

Insight Data Science, Fellow   New York, NY, June 2019 – September 2019

- Worked as a consultant for Veritonic, an audio marketing company. Automated their entity recognition and brand extraction process that takes less than 1 minute to extract brand, industry and disclaimer for over 2000 advertisements (Veritonic used to spend 40hrs/week manually tagging their ads).
- Clustered and classified over 2000 audio advertisement transcripts based on their disclaimers and type of industry using machine learning algorithms including SVM classification, transfer learning and NLP analysis.

Texas A&M University, Graduate Research Assistant   College Station, TX, August 2016 – present

- Developed a machine learning algorithm that predicts onsets of symptoms in individuals who have Post-Traumatic Stress Disorder (PTSD) by using pattern recognition and time series analysis. This tool is implemented in a smart-watch app (First Watch Device).
- Built a machine learning model that clusters physical activity based on accelerometer data using unsupervised approaches such as K-Means clustering.

Lextant Corporation, Research Intern and Data Scientist   Columbus, OH, May 2018-August 2018

- Consulted with Honda to investigate the usability of their vehicles' 'infotainment' systems. Conducted linear regression analysis to understand customers satisfaction and expectations with their systems using SPSS and R. Conducted NLP analysis on over 100 interviews from car drivers to understand their experiences of different in-car infotainment systems.

TECHNICAL SKILLS

Languages

- Python, R, SAS, SAS Enterprise Miner, Git, SPSS, JASP, STATA, SQL

Data Science Tools

- Pandas, NumPy, Scikit-learn, Keras, Matplotlib, NLTK, SciPy, String, Spacy