Hyunsu Park

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EDUCATION

Georgia Institute of Technology   2015 Aug - Current
- MS in Computer Science (Current)
- BS in Computer Science
- BS in Mathematics
- Undergraduate GPA: 3.6 / 4.0

Udacity
- Machine Learning Engineer Nanodegree

RESEARCH/PROJECT EXPERIENCE

Nonnegative Matrix Factorization Project   Apr 2019 - June 2019
- Academic research project on unsupervised learning
- Created a python program that applies various nonnegative matrix factorization (NMF) to a dataset for clustering
- Implemented a number of NMF algorithms from scratch
- Can also be used to test performances of different NMF algorithms

Machine Learning Mini Projects   Mar 2019 - June 2019
- Academic extracurricular projects for self-improvement on coding proficiency in machine learning
- Includes the following mini projects: Plagiarism Detector, Sentimental Analysis, Customer Segments, Finding Donors, Boston Housing Prediction, Titanic Survival Prediction

Curvature Constrained Path Planning Research   Oct 2017 - May 2018
- Academic research project with professor Sung Ha Kang at Georgia Tech, School of Mathematics
- Given a mobile sensor with limited sensing ability, we tried to plan a path with complete coverage of a given region
- One important constraint of the project is that curvature of the mobile sensor is restricted below a certain number
- Used geometric analysis and cutting-edge path planning algorithms for the project
- Created Python and Matlab Programs to examine the minimum length of a curvature-constrained path

WORK EXPERIENCE

Teaching Assistant for College of Computing, Georgia Tech   May 2019 - July 2019
- CS 6515 Graduate Algorithms, Prof. Brito in Summer of 2019

Teaching Assistant for School of Mathematics, Georgia Tech   Aug 2016 - May 2017
- MATH 3012 Applied Combinatorics, Prof. Ernie Croot in fall of 2016
- MATH 3012 Applied Combinatorics, Prof. Heather Smith in spring of 2017

SKILLSET

Programming Languages & OS
- Python, iPython, Matlab, C, C++, Java, JavaScript, Objective-C, Swift, Assembly Language, HTML, CSS, Windows, MacOS, Linux

Skills
- Machine Learning(AWS SageMaker, Pytorch, Tensorflow, Keras, Scikit-learn, Pandas, Numpy), Web Development (JavaScript, JQuery, HTML, CSS), Mathematics and Statistics

AWARDS & COMPETITION

Kaggle Competitions
- top 8% in Titanic: Machine Learning from Disaster by using various machine learning techniques including data cleaning, feature engineering, and stacking a few machine learning models

Putnam Exam
- top 20% (Dec 2017)

Math League State Competition
- 1st place in 9th grade (Apr 2012), 2nd place in 10th grade (Nov 2012), 2nd place in 11th grade (Nov 2013)