HAO WANG

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https://seraveea.github.io

EDUCATION

Georgia Institute of Technology, Atlanta *August 2019 - Present*
Master of Electrical and Computer Engineering Estimated GPA: 4.0(on a 4.0 scale)
Tianjin University, Tianjin China *September 2015 - June 2019*
Bachelor of Engineering, Automation Overall GPA: 3.58(on a 4.0 scale)

EXPERIENCE

Georgia Tech's Social and Language Technologies (SALT) group **2020**
Work as a research volunteer supervised by Prof. Diyi Yang

Analyze people's mental health through social media data and text data.

Data mining, data cleaning, feature extraction and model building.

Intelligence Racing **2020**
Work as a teaching assistant supervised by Dr. Allen Yang

Teach python scientific programming lab sessions.

Develop python course materials

Institute of Robotics and Autonomous Systems of Tianjin University **2018-2019**
Work as an undergraduate research assistant supervised by Prof. Ming Zeng.

Collect and process image data sets.

Implement deep learning algorithms on image data sets.

SELECTED PROJECTS

Intelligent Garbage Identification and Sorting — Tianjin University **2018**
The project aims at designing a system to sort garbage by computer vision. As a classification problem, a unique garbage image data which contain thousands of labeled image set was built and a CNN is implemented.

Complex Text Detection on Garbage Image Data Set — Tianjin University **2019**
Implement and improve Pixel-Link CNN which combines semantic segmentation and object detection on garbage image text data set. Prepare the data, improved Pixel-Link, test network and hyper-parameter tuning.

Combination of Image Compression and Contrast Enhancement in Aerospace Application — Georgia Institute of Technology **2019**
Put forward a hybrid approach to improve the visual quality of images from satellites. Three methods in image processing are implemented, improved and combined in this approach. DWT-SVD, combined Huffman coding and blocking effect reduction were implemented to improve traditional methods.

Estimation, Comparison and Analysis of Yellow Taxi in NYC — Georgia Institute of Technology **2019**
Around 8 gigabyte data was used to train a LightGBM model to generate the taxi fare in NYC by pick

up location and destination. An interactive user web page was built which can show the map of NYC by Google map and the price could be compute back-end. Several experiments were made to analysis and compare the price of Lyft and yellow taxi.

TECHNICAL STRENGTHS

Programming	Python, C++, C#, JavaScript, HTML, CSS, Java
Software&API	Matlab, Pytorch, Unity, Tableau, Gephi, OpenGL, Bootstrap, Hadoop

HONORS&AWARDS

Merit student scholarships(top 15% in department) 2016

Merit student scholarships(top 15% in department) 2017

Merit student scholarships(top 15% in department) 2018