

YIWEN GUAN

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EDUCATION

M.S. in Computer Science, Worcester Polytechnic Institute	2019 - 2021
GPA: 4.0/4.0, Member of Upsilon Pi Epsilon	Massachusetts, US
B.E. in Computer Science, University of Science and Technology of China	2015 - 2019
Major GPA: 3.3/4.3	Anhui, China

SKILLS

Languages	Python, Scala, SQL, Java, C++, HTML
Machine Learning	Keras, Tensorflow, Spark MLlib
Others	Spark, Hadoop, Hive, Linux, MATLAB, LaTeX

PROJECTS

Facial Points Detection in Videos and Real-time Cams	WPI, Apr-May 2021 GitHub
<ul style="list-style-type: none">Processed video data into frames, deployed a face detector, and trained a MobileNet.Deployed the model on real-time cam which achieved a real-time facial points detection demo, which won the only fabulous prize in class.	
Few-shot Learning in Driver Trajectory Data Identification	WPI, Apr 2020 GitHub
<ul style="list-style-type: none">Implemented case study and extracted feature from raw data.Designed and trained a Siamese model with LSTM units, and the performance outperformed the baseline LSTM.	
Autonomous Car Simulation on Unity Platform	WPI, Apr-May 2020 GitHub
<ul style="list-style-type: none">Processed the input image data from Unity platform, and separately trained a ResNet and a deep q-learning model which generally reached the goal of self-driving.	
An Image Recognition Method for Plant Diseases Diagnosis	USTC, Jan-Apr 2019 GitHub
<ul style="list-style-type: none">Conducted data augmentation on the collected dataset.Designed and trained a shared-bottom multitask tree-CNN model which outperformed the baseline multi-label model.	

EXPERIENCE

Machine Learning Engineer for User Profiling Kuaishou Co.Ltd	Jul 2021 - present Beijing, China
<ul style="list-style-type: none">Developed the first profession label system in Kuaishou through building up a weakly supervised strategy mining framework. Designed an MTL model with MMoE and cross-stitch structure along with transfer learning ideas, which achieved an overall precision of more than 90%.Established and optimized KWAI and Snack gender models by deploying bert-embedding, relationship models, and model ensemble. The recall for female is increased by 13% in Pakistan area.	
Teaching Assistant University of Science and Technology of China	Aug 2018 - Jan 2019 Anhui, China
<ul style="list-style-type: none">Worked as a teaching assistant in undergraduate computer programming course.	

WORK HISTORY

Machine Learning Engineer, Kuaishou Co.Ltd	Jul 2021 - present
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HONORS AND AWARDS

Excellent student bronze award, USTC.	2017
Third-class CGNPC scholarship, USTC.	2016