🛿 (412)403-9124 🔹 🖂 victoriayuwei@gmail.com 🔹 🔇 victoriaqiu.github.io

Education

Carnegie Mellon University, School of Computer Science

Master of Computational Data Science (MCDS)

• Relevant Coursework: Introduction to Computer System(A), Large-scale Machine Learning(A+), Topics in Deep Learning(A+), Advanced Cloud Computing(A), Natural Language Processing, Multi-modal Machine Learning, Deep Reinforcement Learning .

Tsinghua University, Department of Electronic Engineering

Bachelor of Engineering

• Exchange Program: University of Pennsylvania, Department of Computer and Information Science.

Experience

Teaching Assistant

Graduate-level Course: Introduction to Machine Learning

- Worked with Prof. Matt Gormley, Machine Learning Department.
- Designed coding problems, written questions, exams and held recitation that covers the theory and practical algorithms for machine learning from a variety of perspectives.

Machine Learning and Relevance Engineer Intern

Scalable Automated Machine Learning

- o Mentored by Bee-Chung Chen and worked with AI Algorithms Foundation Team.
- Implemented AdaNet from scratch, and deployed it using newly proposed network-level asynchronous distributed strategy on LinkedIn 1.13TB Job-You-May-Be-Interested-In dataset and 10GB People-You-May-Know dataset.
- Increased AUC by up to 3.1% while using 3x less training time compared to currently used GLMix model.
- o The proposed framework is used to apply for a patent and will be pushed into production in the next quarter.

Projects

Photograph Style Transferring: GANs, PyTorch

o Constructed a GAN-based framework to transform photographs of real-world scenes into Chinese ink wash style images Proposed a newly defined edge-weakening adversarial loss and an arc-prompting adversarial loss.

Distributed ML Training: Spark, Golang, Kubernetes

- Used asynchronous distributed strategy to process 30TB sparse-formatted tabular data with Kubernetes.
- Deployed one-layer fully connected network training of 10 iterations with 20 millions features within 30 minutes.

Attention-based Speech-To-Text Deep Neural Network: NLP, PyTorch Carnegie Mellon University | 03/2019

o Implemented a framework in combination of CNN and LSTM, and a beam search decoder for speech to text transcription. • Ranked 1/148 out of all participants on kaggle.

Face Verification With Deep Embedding: Vision, PyTorch Carnegie Mellon University | 02/2019

• Extracted embeddings with an ensemble of deep networks as face identification and trained the model on 60GB data. • Achieved a mean average accuracy of 92.4% exceeding the-state-of-art frameworks.

Large-Scale Data Analyasis with MapReduce: Cloud Computing, Java Carnegie Mellon University | 09/2018

- Implemented MapReduce to process and aggregate the 30-day wiki dataset (36GB compressed).
- Used TERRAFORM to configure, deploy, execute and debug MapReduce jobs on AWS EMR.

Trajectory Prediction From GoPro Videos, PyTorch

- University of Pennsylvania | 06/2017 o Implemented an advanced LSTM model merged with siamese network for visual semantics learning and trajectory prediction.
- Established a system for 3D context reconstruction from a 12GB data set of blurry and narrow ego-centric videos.

Skills

Programming: PYTHON, C/C++, MATLAB, JAVA, HTML, LINUX

Tools: PyTorch, TensorFlow, MXNet, Caffe, AWS, Azure, Google Cloud

08/2014 - 07/2018

Carnegie Mellon University, PA

09/2019 - 12/2019

Pittsburgh, PA

Beijing, China

08/2018 - 12/2019

LinkedIn Corporation, CA

05/2019 - 08/2019

Yuwei (Victoria) Qiu



Carnegie Mellon University | 04/2019