Yuchu **Luo**

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Technical Skills

Programming   Python, C/C++, PHP, Javascript (Node.js/jQuery), HTML5/CSS3, etc.
Libraries   GNU/Linux, PyTorch, Keras, scikit-learn, NumPy, Git, OpenAI Gym, etc.

Selected Projects

An Quadrotor Safety Monitorting System

RESEARCH ABOUT THE SAFETY OF QUADROTOR USING MACHINE LEARNING METHODS   *Dec. 2016 - Jun. 2017*

- Implemented and optimized an anomaly detection algorithm called Isolation Forest, which can receive temporal information and feedback the abnormal degree.
- Developed an exploration tool for the iForest algorithm, which can do visualization to a certain extent.
- Won Provincial 1st Prizes both in the 2017 Challenge Cup and the E-Commerce Competition, Technical group. And get the qualification to the 2017 national contests.

Question Generating in Visual Dialog (Not Published Now)

RASEARCH IN COMPUTER ANIMATION AND MULTIMEDIA ANALYSIS LAB   *Mar. 2017 - PRESENT*

- Researched on how to generate a question given an image and a conversation history.
- Explored where a question comes from using attention model both on conversational and visual information.
- Implemented an encoder-decoder model consisted of Memory Network and LSTM.

Other Projects - (Github)

CURRICULAR AND EXTRACURRICULAR PROJECTS

- **Digit Sequence Recognition Program**: used DNN and CNN to localize digits and decode a sequence of digits from natural images by training on the Street View House Numbers (SVHN) dataset, and achieved 67% accuracy (trained on CPU).
- **SmartCab**: implemented Reinforcement Learning techniques for a self-driving agent in a simplified world to aid it in effectively reaching its destinations in the allotted time, and made the agent reach the destination in time for 96% of trips.
- **Customer Clustering**: operated Unsupervised Learning techniques (Clustering, PCA) to see if any similarities exist between customers and how to best segment customers into distinct categories.
- **Rossmann Store Sales Predicting**: executed a pipeline from exploratory data analysis to model validation and evaluation, and Develope an ensemble model using XGBoost and Decision Tree Regression, after ensemble, the model get a score of 0.16, which was better than 800 Contestants.

Professional Experience

CAMA-LAB Machine Learning Summer School   *Hangzhou, Zhejiang Province*

HEAD TACHING ASSISTANT   *Jul. 2017*

- Arranged class contents and homework (Machine Learning and Deep Learning) for more than 30 students.
- Responsibilities included helping students with lab projects and homework and grading them.

Udacity, China   *Internet*

MENTOR OF NO. 14 ADVANCED CLASS IN MACHINE LEARNING ENGINEER NANODEGREE   *May. 2017 - PRESENT*

- Helping 10 students with Machine Learning projects and answer questions.
- Do online Machine Learning courses for students.

Heha Network Technology Co., Ltd   *Changsha & Hangzhou*

CO-FOUNDER & TECHNOLOGY LEADER   *Jan. 2016 - Sep. 2016*

- Founded a start-up business company, which is a third Ad Platform servicing more than 300 small and medium-sized anchors.
- Developed a powerful Web Crawler (Python) that obtained data from more than 50 thousands anchors and a online user service platform with Node.js and RESTful API using a BaaS LeanCloud, and managed a front-end engineer to develop the system front-end employing Bootstrap, VueJS, and RESTful API.

Selected Honors & Awards

Aug.2017   **3rd Prize**, the Seventh National College Student E-Commerce "Innovation, Originality, and Entrepreneurship" Competition   *National level*

May.2017   **1st Prize (60/1147)**, the 15th Challenge Cup College Students' Extracurricular Academic Science and Technology Works Contest   *Provincial level*

May.2017   **1st Prize (76/2066)**, E-Commerce Competition, Technical group   *Provincial level*

Education

Hangzhou Dianzi University

BEng student MAJOR IN COMPUTER SCIENCE AND TECHNOLOGY   *2015 - 2019 (expected)*

- Conduct research on cross-media (the intersection between NLP and CV) with Dr. Zhou Yu supervised by Prof. Jun Yu in Computer Animation and Multimedia Analysis LAB.

Udacity

Machine Learning Engineer Nanodegree   *Jan 2017*