Tel: 13207145966 Email: xulu\_xl@foxmail.com Github: https://github.com/lucasxlu

**OBJECTIVE** Machine Learning/Computer Vision Algorithm Engineer.

### EDUCATION Huazhong Agricultural University

2016.09-2019.06

Master of Science

Machine Learning & Computer Vision

- 1st Scholar Prize in 2018.
- 1st Prize on Academic Research Report (outperform all Ph.Ds), "Combining Machine Learning and data-driven Approaches for AI Services".
- 2nd Scholar Prize in 2017.

# Hubei University of Technology

2011.09-2015.06

Bachelor of Management Information Management & Information System Concentration: Text Mining & Machine Learning

- My undergraduate thesis Research on Hot Topic Detection and Tracking based on Incremental Clustering was awarded as excellent paper among all papers of Hubei province in 2015.
- My Hot Topic Discovery System was authorized (2015SR165186) in 2015.
- 3rd Prize in NECCS (national level) in 2014.

# RESEARCH Face Analysis & Deep Learning

2017.09-now

#### **Academic Papers**

- Hierarchical Multi-task Networks for Race, Gender and Facial Attractiveness Recognition (submitted to ICASSP 2019).
- Multi-Task Tree Convolutional Neural Network for Facial Expression Recognition and Face Analysis (submitted to ICASSP 2019)
- CRNet: Classification and Regression Neural Networks for Facial Beauty Prediction (PCM 2018. CCF C).
- Transferring Rich Deep Features for Facial Beauty Prediction (Computers & Electrical Engineering, SCI).
- Data-driven Approach for Quality Evaluation on Knowledge Sharing Platform.
- An Automatic Method for Internet Terror Information Classification based on Deep Learning and Random Forests (Chinese)

XCloud 2016.12–2017.09

I develop an AI Cloud Platform named *XCloud*, which provides AI and data services for both business companies and academic organizations. The APIs have been called for over than 180,000 times till now.

#### **Features**

- CV: Face Comparision, Facial Beauty Prediction, Facial Expression Recognition, Age Estimation, Gender Recognition.
- NLP: Sentiment Analysis, News Classification and Hot Keywords Extraction.
- Data Services: Web Crawling, Data Analysis, and Data Visualization (HTML5).

## **EXPERIENCE**

# DiDiChuXing: Deep Learning Algorithm Engineer

2018.09-now

During my intern at *DiDiChuXing*, we are working at developing deep learning models for *Image Quality Assessment* (IQA), *License Type Classification* and *Facial Beauty Prediction*.

- $\bullet$  Building deep models for IQA with 97% precision and 99% recall.
- $\bullet$  Developing and training deep models for license type classification with 99% accuracy.
- Developing deep models for Facial Beauty Prediction with 0.92 PC.

### Deep Learning/Python Engineer

2018.02-2018.03

We develop an Pig Face Recognition System with Guangzhou Yingzi Technology Incorporation, the system provide face detection, face comparision with RESTful APIs based on TensorFlow and Django. The Pig Face Recognition System achieves a mAP with approximate 95%.

- Building deep models (MTCNN + FaceNet) and training on Amazon S3 server.
- Encapsulate RESTful APIs and web backend development based on Django and MySQL.

# Machine Learning Algorithm Engineer

2017.07 - 2017.09

I developed an Mal-Image Recognition System with Wuhan ZhiLiFeng Information Incorporation, the model achieves a mAP with 92.17% on detecting mal-images.

- Image data crawling and preprocessing.
- Building machine learning algorithms.
- Model training and deployment.

## Web Crawling and Java Developer

2015.06-2016.06

During working at Beijing Jiewen Technology Co.,Ltd., Huazhong Developing Center. My duties are developing and maintaining Financial Information System, and developing Web Crawling System based on Java and Python. The Web Crawling System has crawled million-level datasets from Internet.

- Developing and maintaining web information system based on Java SSM framework and MySQL database.
- Developing web crawlers to collect data from O2O websites (e.g. Ctrip, Dazhong Dianping, AMap), and storing them in MySQL and MongoDB.
- Data statistics, analysis and visualization based on HTML5.

**SKILLS** 

Programming: Java == Python > R >= C + +

Algorithm: Deep Learning/Machine Learning/Computer Vision/Data Mining/Data Analysis

Framework: PyTorch/TensorFlow/Scikit-Learn/OpenCV

Database: MongoDB/MySQL/Oracle

English: CET-6 (575/710); Proficiency in reading and writing.

Platform: Linux, Windows.

Others: Web Crawler/Web Development/PPT

INTERESTS

Coding, Reading (Technology, Internet and Business), Photographing, Writing (Data Analysis Report), Design (PPT, UI)

I like solving real-life problems using data-driven methods.