Lu Xu

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🎓 EDUCATION

Huazhong Agricultural University   2016.09 – 2019.06

Master   Machine Learning & Computer Vision

- 1st Prize in Annual Academic Report   2018.12
- 1st Scholar Prize   2018.10
- 1st Prize in Annual Academic Report   2017.12
- 2nd Scholar Prize   2017.10

Hubei University of Technology   2011.09 – 2015.06

Bachelor   Management Information System

- Excellent Paper: «Research on Hot Topic Detection and Tracking based on Incremental Clustering»   2015.06
- Software Copyright: Hot Topic Detection & Tracking System (2015SR165186)   2015.06
- NECCS 3rd Prize   2014.04

English: (CET-6: 575/710); Proficiency in Reading and Writing

🎓 RESEARCH

Deep Learning/Face Analysis/Machine Learning (First Author)   2017.01 – Present

- Hierarchical Multi-task Networks for Race, Gender, and Facial Attractiveness Recognition
- Multi-Task Tree Convolutional Neural Network for Facial Expression Recognition and Face Analysis
- Data-driven Approach for Quality Evaluation on Knowledge Sharing Platform
- CRNet: Classification and Regression Neural Network for Facial Beauty Prediction   (PCM2018. CCF C)
- Transferring Rich Deep Features for Facial Beauty Prediction (Concurrency & Computation: Practice & Experience)
- **Reviewer of Elsevier Journal <Neurocomputing>**

Projects & Competition   2016.09 – Present

- Plant Disease Recognition Center (PDRC): Requirement Analysis/Architecture Design/Deployment
- First place on Facial Expression Recognition Challenge on the challenging Real-word Affective Face Database
- XCloud [1]: an Open-Source AI Cloud Platform based on Java/Python, which provides common data & AI services with RESTful APIs. The APIs have been called over 200,000 times.

👥 EXPERIENCE

DiDi   2018.09 – 2019.01

Algorithm Intern

Security Product & Technology

- License image quality recognition (reflection/blur) with 93.15% Precision and 98.35% Recall
- Facial beauty prediction with 0.89 Pearson Correlation
- License type recognition with 99.77% Precision and 99.76% Recall
- Scene recognition (in car/out of car) with 99.89% Precision 99.90% Recall
- License completeness recognition with 99.80% Precision and 99.81% Recall
- Complete the writing of 21 patents related to safety products

GeeTest   2018.09 – 2018.09

Data Mining Intern

Behavior Verification Code Data Mining

- User behavior data analysis & mining base on Spark
- Feature extraction of black-and-white sample behavior dataset
- Complete the writing of data analysis report

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[1] `https://github.com/lucasxlu/XCloud.git`

Guangzhou Yingzi Tech   2018.02 – 2018.03
Deep Learning/Python Engineer

Animal Identification Center

- Implementation of Amazon S3 data interaction module; Cleaning and pre-processing of existing Label-Me data
- Implement and train face detection model (MTCNN), and face identification model (FaceNet) based on TensorFlow
- Encapsulate RESTful API based on Django, V1.0 achieves an accuracy over 95%

Wuhan ZhiLiFeng Info .,Ltd.   2017.07 – 2017.09
Python/Machine Learning Engineer

Malicious Image Recognition

- Developing machine learning & skin models to recognize pornographic images with 92.17% accuracy
- Developing deep model (Center Loss + Softmax Loss) to recognize politically sensitive images with 99.87% accuracy
- Model training and deployment based on Django

Beijing Jiewen Tech Co.,Ltd., Huazhong R&D Center.   2015.06 – 2016.06
Java/Web Spider Developer

Financial Information System & Multi-thread Web Crawling System

- Develop and maintain web information system based on Java SSM framework and MySQL database.
- Develop web crawlers to collect data from O2O websites (e.g. Ctrip, Dazhong Dianping, AMap) based on Python/Java and MySQL/MongoDB.
- Data statistics, analysis and visualization. It provides important data support for company offline product location

⚙ SKILLS

- Algorithm: Deep Learning/Machine Learning/Computer Vision/Data Mining/Data Analysis
- Programming: Java == Python > R > C++
- Framework: PyTorch/TensorFlow/Scikit-Learn/OpenCV
- Database: MongoDB/MySQL/Oracle
- Others: Web Crawler/Web Development/PPT/LaTeX