

Lu Xu

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OBJECTIVE	A position in machine learning, deep learning, computer vision and other related data science fields.	
EDUCATION	<i>Huazhong Agricultural University</i>	2016.09–2019.06
	Master of Science	Machine Learning and Computer Vision
	<ul style="list-style-type: none">• I won the <i>1st Prize in Academic Research Report</i> (outperform all Ph.Ds), “Combining Machine Learning and data-driven Approaches for AI Services”.• I was awarded the <i>2nd Scholar Prize</i> in 2017.	
	<i>Hubei University of Technology</i>	2011.09–2015.06
	Bachelor of Management	Information Management and Information System
	Concentration: Text Mining and Machine Learning	
	<ul style="list-style-type: none">• My undergraduate thesis <i>Research on Hot Topic Detection and Tracking based on Incremental Clustering</i> was awarded as <i>excellent paper</i> among all papers of Hubei province in 2015.• My <i>Hot Topic Discovery System</i> was authorized (2015SR165186) in 2015.• I won the <i>3rd Prize in NECCS</i> (national level) in 2014.	
COMPETITION	My algorithm named <i>TreeNet</i> ranks the 1st place on <i>Facial Expression Recognition Challenge</i> on <i>Real-word Affective Face Database (RAF-DB)</i> .	
SKILLS	<i>Programming:</i> Java == Python > R > C ++	
	<i>Algorithm:</i> Deep Learning/Machine Learning/Computer Vision/Data Mining/Data Analysis	
	<i>Framework:</i> PyTorch/TensorFlow/Scikit-Learn/OpenCV	
	<i>Database:</i> MongoDB/MySQL/Oracle	
	<i>English:</i> CET-6 (575/710); Proficiency in reading and writing.	
	<i>Platform:</i> Linux, Windows.	
	<i>Others:</i> Web Crawler/Web Development/PPT	
RESEARCH	<i>Facial Attribute Analysis</i>	2017.09–2018.05
	Developing deep models to accurately predict facial attributes (beauty, race, gender, expression, age and etc.) from a given input portrait.	
	Academic Papers	
	<ul style="list-style-type: none">• Hierarchical Multi-task Networks for Race, Gender and Facial Attractiveness Recognition (submitted to ICASSP 2019).• CRNet: Classification and Regression Neural Networks for Facial Beauty Prediction (PCM 2018).• Transferring Rich Deep Features for Facial Beauty Prediction (Computers and Electrical Engineering, SCI).	

Data Mining

2018.01–2018.03

Developing computational methods to effectively evaluate online knowledge services' quality.

Academic Papers

- Data-driven Approach for Quality Evaluation on Knowledge Sharing Platform (submitted to PAKDD 2019).

XCloud

2016.12–2017.09

I develop an AI Cloud Platform named *XCloud* providing AI and data services for both business companies and academic organization. The APIs have been called for over than 150,000 times till now.

Features

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

EXPERIENCE

Deep Learning/Python Engineer

2018.02–2018.03

We develop an *Pig Face Recognition System* with *Guangzhou Yingzi 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 GPU 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.

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.