

Lingjia Li

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EDUCATION

Cornell University

MPS in Information Science

August 2021 - Present

College of Computing and Information Science, GPA: 4.2/4.3

Shanghai Jiao Tong University

B.Eng in Computer Science and Technology (IEEE Honor Class)

September 2016 - June 2020

Department of Computer Science and Engineering, GPA: 3.9/4.3 (Top 15%)

B.A in Animation (Minor)

January 2018 - June 2020

School of Media and Communication

SKILLS

Languages

Python, C/C++, JavaScript, SQL, TypeScript, Java, HTML/CSS, MatLab

Technologies

Linux, UNIX, Git, IBM DB2, Dell Boomi, D3.js, Tableau, Gephi, Wherescape Red, Node.js, Angular, Django, web.py, TensorFlow, PyTorch, Jupyter

ACTIVITIES

Activities

ACM 2018 Turing Celebration Conference Volunteer, Leader of Network Department of SJTU Student Union, Vice Leader of SJTU Volleyball Association

Interests

Volleyball (National 1st Class Athlete), Digital Media, Painting, Photography

COURSEWORK

Software Engineering
Computer Architecture
Design and Analysis of Algorithm
Data-driven Web Applications
Artificial Intelligence
Introduction to Machine Learning
Database System Technology
Business Intelligence System
Parallel and Distributed Programming
Crowdsourcing and Human Computation
(Research Asst. & Teaching Asst.)

EXPERIENCE

Nan Yang High School

August 2020-March 2021

Artificial Intelligence Teacher, Shanghai, China

- Developed AI course resources (materials, activities and software programs) and collaborated weekly with teachers, teaching researchers and principal
- Mentored 90 students ML techniques (Supervised Learning, Perceptron, Neural Network, etc.) through intuitive instruction & learning activities design

Morgan Stanley

July-September 2019

Software Engineer Intern, Shanghai, China

- Developed the corporation's knowledge management system for resource indexing and linkage through the Agile (Scrum) development process
- Implemented file uploading and storage, content management system, search engine and document recommendation with Java, Angular, Typescript, REST, IBM DB2 and Elasticsearch, etc.

PROJECTS

PepsiCo Champion League Waste Analytic

August-December 2021

Machine Learning Engineer, Ithaca, NY

- Met with PepsiCo clients weekly and presented updates based on feedback
- Built time series to analyze value drivers and developed predictive models to assess future product material waste
- Developed dashboards via Tableau to provide deep insights for PepsiCo product wastes and offer waste reduction tips

Big Data Mining of Software Development

June 2018-June 2021

Research Assistant, Shanghai, China

- Extracted dataset using GitHub API and Scrapy, performed sentiment analysis using NLTK, Senti4SD and SentiCR, conducted analysis with NumPy, Pandas, SciPy and NetworkX through correlation analysis, causality test and dynamic social network analysis, visualized results via Matplotlib, Gephi and Highcharts. First-author paper published and presented on *SEKE 2020*.
- Developed Kleinberg, FNN and Linear SVM models to detect and classify negative sentiment-related events during OSS development, achieved average accuracy of 78%. First-author paper published and presented on *APSEC 2021*
- Built a sentiment monitoring dashboard for OSS projects with Django

Quantitative Index Trading Prediction

September 2018-January 2019

Group Leader, Shanghai, China

- Built predictive models with LSTM and LightGBM to predict mean value of middle price based on order book data with PyTorch (Rank Top 20% in Kaggle competition)

Perfume Search Engine

September 2017-January 2018

Group Leader, Shanghai, China

- Crawled and integrated item information from Taobao and Nosetime, developed a web search engine with web.py on Linux Ubuntu, implemented multi-field text search and image search with PyLucene and OpenCV