Lingjia Li

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EDUCATION

Cornell University
MPS in Information Science
August 2021 - Present
College of Computing and Information Science

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 - Artificial Intelligence Teacher
Shanghai, China   August 2020 - March 2021
- 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 - Software Engineer Intern
Shanghai, China   July 2019 - September 2019
- Developed the corporation's knowledge management system for resource indexing and linkage through 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 - Machine Learning Engineer
Ithaca, NY   August 2021 – Present
- Meet with PepsiCo clients and stakeholders weekly, build time series to analyze value drivers and develop predictive models to assess future product material waste for each PepsiCo product and provide waste reduce tips

Big Data Mining of Software Development - Research Assistant
Shanghai, China   June 2018 - June 2021
- Extracted dataset using GitHub API and Scrapy, performed sentiment analysis using NLTK, Senti4SD and SentiCR, conducted analysis with NumPy, Pandas, SciPy, NetworkX through correlation analysis, causality test, dynamic social network analysis and visualized results via Matplotlib, Gephi and Highcharts
- Developed models (Kleinberg, FNN and Linear SVM) to detect and classify negative sentiment-related events during OSS development (Avg acc: 78%)
- Built a sentiment monitoring dashboard for OSS projects with Django

Quantitative Index Trading Prediction - Group Leader
Shanghai, China   September 2018 - January 2019
- Built models (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 - Group Leader
Shanghai, China   September 2017 - January 2018
- 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

PUBLICATIONS

Lingjia Li, Jian Cao*, and David Lo. Sentiment Analysis over Collaborative Relationships in Open Source Software Projects. In 32nd International Conference on Software Engineering and Knowledge Engineering (SEKE), 2020.

Lingjia Li, Jian Cao*, and Qing Qi. Monitoring Negative Sentiment-related Events in Open Source Software Projects. In 2021 28th Asia-Pacific Software Engineering Conference (APSEC). IEEE, 2021.