XIAOCHEN LU

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EDUCATION

Bachelor, NYU Shanghai **2019/09 - 2023/05** **Shanghai, China**
Major: Data Science, double major in Business & Finance, minor in Computer Science
Cumulative GPA：3.87/4.0, with a consecutive two years on University Dean's List
Data Science Major GPA: 3.96/4.0

Bachelor Studyaway, NYU Stern **2021/09 - 2022/06** **New York, US**

WORKING EXPERIENCE

Jiangsu Expsoft .Ltd **Wuxi, China**
DevOps Intern **2021/05 — 2021/09**

- Collaborated with a team of 18 people in building and operating a browser-server system based on SpringBoot web framework, Apache Tomcat and MS SQL Server

Deep Learning Intern **2021/09 - 2021/12**

- Built a NLP segmentation tree API specialized in civil and construction engineering setting, and deployed it as a web-based system with UI and API
- Using MobileNetV2 as feature extraction backbone network, build a liveness anti-spoofing detection network, and deploy it as a system with UI and API; Build a face recognition API based on DeepFace library from FaceBook (now changed name to Meta)

RESEARCH EXPERIENCE

NYU Shanghai Dean's Undergraduate Research Fund
Researcher **2021/05-Current**

- Participated in a project named "*Multi-modal Engagement Detection in Online Learning Context",* led by Professor Hanan Salam from NYU Abu Dhabi. Create a dataset for online learning engagement detection and opened it to research community; Use R and Python to verify dataset's internal validity; Use OpenCV and OpenFace to do face detection and feature extraction, and build an engagement detection network specialized in online learning engagement detection

YOLOv3's Application in Autonomous Driving Object Detection
Research Leader **2021/09-2021/12**

- Use and improve object detection algorithm YOLOv3: by keeping the feature extraction backbone DarkNet53 as it is, and modifying the feature pyramid network to better concentrate on detecting what matters in driving situations. Achieved a real-time detection frame rate of 42 on personal computer, with a mAP of 49.6% when transferred to images outside the dataset

Skills

Language: Native speaker in Chinese; fluent in English (speaking and writing), with a CET-4 score 634, GRE score 324

Coding Languages: experienced in Python, R, Java, SQL, Javascript
Machine Learning: familiar with Tensorflow and Pytorch; familiar with traditional machine learning algorithms like Naive Bayes, Linear/ Logistic Regression
Front-end: familiar with HTML5，CSS3，React JS

Database: familiar with MySQL and MS SQL Server