**Jiashegn Ni**

✆ +86 13816383342 niallni1980@gmail.com

**EDUCATION**

**New York University Shanghai (****NYU Shanghai)** *09/2019-06/2023*

Major: Data Science | Major GPA: 3.93/4.0

Minor 1: Mathematics; Minor 2: Business

Degree: Bachelor of Science (expected)

Study away at NYU Abu Dhabi (The United Arab Emirates) in Spring 2022 Term

**Honors:** Dean’s List for Spring 2020 Term, Dean’s List for Spring 2022 Term

**Online Platform Courses** *08/2020-04/2021*

**Coursera Certificate**: Machine Learning by Andrew Ng (Stanford Uni.), Neural Networks and Deep Learning by Andrew Ng (Stanford Uni.), Convolutional Neural Networks by Andrew Ng (Stanford Uni.), Improving Deep Neural Networks, Sequence Models

**MIT OCW**: 18.02SC, 18.03SC, 18.05, 18.06SC, 18.600, 18.100A, 18.102, 6.036, 6.006 (*P.S. course codes starting with 18 represents math courses; course codes starting with 6 represents data science courses*)

**My Study Notes**: https://www.yuque.com/alexman

**Shanghai High School (SHS)** *09/2016-06/2019*

**Honors & Awards**: 33rd Shanghai City Youth Science and Technology Innovation Competition (2nd prize); 2017 “SHS Cup” Youth Science and Technology Innovation Forum (2nd prize in senior high school team); Shanghai Xuhui District “Tomorrow’s Star of Science and Technology” Quality Assessment Competition (1st prize in senior high school team)

**RESEARCH & TRAINING**

**Alibaba Artificial Intelligence Project** *Shanghai*

*Supervisor: Yuan Xin, Natural Language Processing Engineer, Alibaba Shanghai 06/2022-08/2022*

* Designed algorithmic logic and performance parameters for voice interactive products; learned some common algorithmic logic and flow of natural language processing
* Conducted budget planning and user profile analysis

**A Medical Service Application Deep Learning Project (MIT)** *Online*

*Supervisor: Mark Vogelsberger, Associate Professor, Massachusetts Institute of Technology 06/2021-08/2021*

* Proposed a medical prognosis application based on deep learning
* Established the framework for a 3D-CNN encoder-decoder model and an HBDA NLP model for QA tasks supported by Neo4j Database
* A 3rd ICAITA conference paper included by Journal of Physics, please refer to the section ‘PRESENTATION’ in my resume.
* GitHub Link: https://github.com/AlexMan2000/MIT\_Project

**Deans' Undergraduate Research Fund Project on Deep Learning** *NYU Shanghai*

*Supervisor: Xianbin Gu, NYU Shanghai 06/2021-08/2021*

* Researched the variants of traditional deep learning models like PredRNN, Memory-in-memory RNN, TrajGRU, UNet, ResNet, and CapsuleNet, along with their application in rainfall nowcasting
* Used PyTorch and TensorFlow to implement UNet and ResNet; replicated other deep learning models

**Business Analytics Project** *Remote*

*Supervisor: Jiayu Hu, Vice President, EMEA Controller, Citigroup 07/2020-08/2020*

* Implemented a quantitative financial model with Excel to simulate real-time buyout
* Got familiarized with underlying principles of inter-company transactions and principal indexes in merging
* GitHub Link: https://github.com/AlexMan2000/Business\_Analytics

**INTERNSHIP**

**Volatility Institute at NYU Shanghai** *Shanghai*

*Supervisor: Xin Zhou, Professor 09/2021-04/2022*

* Researched the effect of political speeches on stocks of various industries
* Web-crawled policy texts; built NLP models and conducted statistical analysis on the connection between different industries.
* GitHub Link: https://github.com/AlexMan2000/vins\_program
* Model\_Link(Progressing): <https://colab.research.google.com/drive/1fh1eKN5FginhLcf0O1x6Nzwjyg8sN94x>

**Agricultural Bank of China, Shanghai** *Shanghai*

*Supervisor: Hong Zhang, Lobby Manager 08/2020-09/2020*

* Served as the position of lobby manager, helping the customers fill in the application form, open financial accounts, and operate small transfer
* Assisted the company outreach in propagating the company’s financial products

**New EAST Printing Ink Co., Ltd.** *Zhejiang*

*Supervisor: Su Zhen Li,* *Head of IT Department/Executive Vice President 07/2022-08/2022*

* Participated in the digital transformation project of the company, in which I was responsible for the programming development of sales data visualization display
* Create a website application for employees to understand the sales data.
* Address difficulties with regards to programming, UI design, and data analysis.

**China Construction Bank Life, Shanghai** *Shanghai*

*Supervisor: Jing Chen, Software Development and Testing Engineer 06/2020-07/2020*

* Developed a comprehensive retrieval system based on Python Django, Oracle, BootStrap, and JQuery
* Built a web page for employees to quickly search and filter data; distributed the system to the Linux server

**Publications**

Jiasheng Ni; ***A Medical Service Application Based on 3D-CNN and Knowledge Graph***, presented on ***Journal of Physics: Conference Series, Volume 2078, 2021 3rd International Conference on Artificial Intelligence Technolog***

***ies and Applications (ICAITA 2021) 10-12 September 2021, Wuxi, China***

***;*** Citation: Jiasheng Ni 2021 J. Phys.: Conf. Ser. 2078 012048

**PROJECTS**

**SpringBoot+Vue Second-Hand Trading Application** *NYU Shanghai*

*Supervisor: Prof. Oudah Mai, Dept. of Computer Science, New York University Abu Dhabi 02/2022-06/2022*

* Wrote Software Requirements Specification template from scratch; designed the UML class diagram and activity diagram; experienced a full circle of software development
* Built a campus second-hand trading system based on Springboot, Websocket and Vue.js.

**SpringBoot+React Flight Management Application**  *NYU Shanghai*

*Supervisor: Prof. Lihua Xu, Department of Computer Science, NYU Shanghai 10/2021-12/2021*

* Built a flight info. retrieval system based on the backend SpringBoot, MyBatis and the frontend Ant Design
* Realized user authentication, concurrency control, and data visualization

**Deep Learning Team Project**  *NYU Shanghai*

*Supervisor: Prof. Li Guo, NYU Shanghai 04/2021-05/2021*

* Built an interactive web application showing the image captioning algorithm
* Implemented with PyTorch a CNN to RNN sequential-to-sequential deep learning model for image captioning

**Data Visualization Team Project**  *NYU Shanghai*

*Supervisor: Prof. Xianbin Gu. NYU Shanghai 04/2021-05/2021*

* Used the React framework and d3.js to build an interactive, analytical web presentation to show the relationship between working productivity and a country’s prosperity

**Multi-Threading Chatting System Team Project** *NYU Shanghai*

*Supervisor: Prof. Li Guo. NYU Shanghai 11/2020-12/2020*

* Built a chatting system using raw socket programming and PyQt5 for its GUI interface; realized file transferring and clouding, voice chatting
* Developed a tower guard game using the pygame module; realized web crawling and downloading mp4 music using the Scrapy Framework

***GitHub Link for the Projects: https://github.com/AlexMan2000?tab=repositories***

**VOLUNTEER EXPERIENCES**

**Enactus Club, Voluntary Researcher** *09/2019-12/2020*

* Improved the functions of a “Pop-up Store” by adding new features
* Optimized the user interface, analyzed customers’ economic behaviors, and arranged the order of products to improve sales; designed customer questionnaire

**NYU Shanghai Fitness Center, Front Desk Receptionist** *07/2020-06/2021*

* Analyzed the customer flow; visualized the data with plot graphs; compared the analysis result with the flow data of other gyms in Shanghai to provide a reference for improving the fitness centers’ management

**NYU Shanghai, Deputy Director of Community Management** *10/2019-10/2020*

* Managed the club’s finance, funds, and budget approval; visualized the data about activity budgets

**SKILLS**

**Programming Languages**: Java, Python, R, SQL, C++ (UE4), JavaScript, Stata, RStudio, Matlab

**Machine Learning**: Google CoLab, Tensorboard, PyTorch, TensorFlow

**Environments**: IntelliJ IDEA, PyCharm, WebStorm

**Software Engineering**: Network Testing, Postman, Database Connection, Neo4j Database, Redis, Navicat, React (JavaScript), Springboot (Java), Django (Python)

**Languages**: Mandarin (Native), English, Japanese

**Hobbies**: Electronic Organ(8 level certificate of electronic organ), Meteorological Photography, Fitness