Peixuan Song

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Education

09/2021-12/2022.	**Columbia University**	New York, NY
	Master of Arts in Statistics	GPA: 3.75/4.00
09/2020-06/2023.	**Shandong University**	Shandong, China
	Master of Science in Artificial Intelligence	GPA: 87.1/100
09/2016-06/2020.	**Shandong University**	Shandong, China
	Bachelor of Science in Statistics (Finance).	GPA: 85.75/100

Skills

R, Matlab, Excel(Proficient)   Tableau, Python, C++ (Intermediate)

Projects

Date Analysis of NYC Motor Vehicle Collisions

Columbia University, Department of QMSS   *12/2021-12/2021*

- Used **R** for data visualization and regression analysis of contributing factors of collisions
- Performed time series analysis to forecast the collisions instances in the following year
- Made suggestions for NYC motor vehicle regulations to decrease the incidence of collisions

An Unsupervised Online Cross-modal Method with Compact Hash Codes

Shandong University, School of Software   *10/2020-06/2021*

- Proposed a novel method for image retrieval with an effective self-weighting strategy adopted to guide the learning of unified hash codes
- Designed an in-progress patent, prompted accuracy by 5% and saved computational speed and storage for 3 large-scale image-text dataset using **MATLAB**

Azure Learning and Evaluation of office AI Applications: x.ai, otter.ai and orai

Microsoft (China), Department of Cloud + AI   *09/2019-10/2019*

- Analyzed newest AI applications, visualized users' data using **Tableau** and wrote experience reports.
- Learned Microsoft cognitive services application and machine learning model in **Azure** portal
- **Achievements:** Reports were posted on WeChat Subscription with thousands of views

Construction and Simulation of Propagation Model for Internet Memes

Shandong University, School of Mathematics and Statistics   *06/2017-05/2018*

- Built a SIPR Internet meme propagation model with potential communicators and assimilative immune mechanism based on SIR Model by using **MATLAB**
- Analyzed the parameters in the model and conducted simulation on a typical Internet Meme "Xinjiang nut cake". Came up with rules of improving revenue by attracting clients and reducing marketing cost
- **Achievements:** Awarded as the third prize project of Shandong University Student Research Training Program; paper published on *Journalism & Communication* (CN 23-1070 / G2, ISSN1672-0261)

Establishment of Student Fitness Website and Database

Shandong University, School of Mathematics and Statistics   *06/2018-07/2018*

- Designed the basic questionnaire of students' fitness and used **Python** to build the website using Django
- Connected the portal site to the Mongodb database and imported the input data into the database
- Filtered the data in the database and analyze a variety of indicators to give analysis

Internships

Analyst Intern, CCB Life, *Jinan, China*   *04/2020-06/2020*

- Built functions to realize the financial regulation terms for pricing insurance using **Excel**
- Collected and analyzed thousands of daily insurance sales data

Analyst Intern, Inspur Corporation, *Jinan, China*   *07/2018-08/2018*

- Assisted in monthly funding and sales data collation and revenue calculation using **Excel**
- Applied Office software to report and implemented meetings