Yuyan **Yang**

MASTER STUDENT IN DATA SCIENCE · NEW YORK UNIVERSITY

New York, USA

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Education

New York University   *New York, NY, USA*

M.S. IN DATA SCIENCE   *Sep. 2023 - May. 2025*

- Relevant Courses: Linear Algebra and optimization, Big Data, Data-Intensive Programming

Pennsylvania State University   *State College, PA, USA*

B.S. IN DATA SCIENCE & B.S. IN HOSPITALITY   *Aug. 2019 - Dec. 2022*

- Relevant Courses: Calculus I-III, Linear Algebra, Probability Theory, Mathematical Statistics, Machine Learning, Computational Statistics, Database, Data Privacy, Data Visualization

Experience

iSoftStone Information Technology Group   *Beijing, China*

ASSISTANT SOFTWARE ENGINEER   *Apr. 2023 - Jul. 2023*

- Contributed to the development and deployment of Kingdee Software, an integrated business solution specializing in enterprise management.
- Facilitated client communications and tailored the deployment of Kingdee Enterprise Management Software to meet their unique operational needs.
- Enhanced software development proficiencies through collaborative efforts with team members to fulfill client specifications.

Eberly College of Science   *State College, PA, USA*

LEARNING ASSISTANT   *Aug. 2021 - Dec 2021*

- Selected for a specialized role as a Learning Assistant in Calculus I, aiding in the academic advancement of college students.
- Provided individualized support and group tutoring sessions, emphasizing comprehension and application of mathematical concepts.
- Coordinated and supervised group activities, prepared instructional materials, and maintained an organized learning environment.
- Enhanced communication and teaching skills, particularly in conveying complex mathematical terms and concepts.

Pfizer China   *Beijing, China*

DATA ANALYSIS INTERN   *May. 2020 - Nov. 2020*

- Managed sales data organization for the outsourcing product management department, enhancing operational efficiency.
- Analyzed a dataset of approximately 100,000 entries from eight outsourcing companies using Excel, deriving insights to inform business decisions.
- Streamlined vendor data integration by monitoring data loading processes and developing a data input model to align with data flow activities.

Skills

Programming	R, Python, SQL, JavaScript, LaTeX
Technologies	Git, Tableau, Excel, Windows, Linux
Machine Learning Frameworks	TensorFlow, PyTorch
Data Science Skills	Machine Learning, Statistical Modeling, Data Analysis, Business Analysis
Soft Skills	Effective Communication, Team Collaboration, Time Management
Languages	Chinese (Native), English (Professional)

Projects

Campus Crime Analysis

DATA VISUALIZATION

- Utilizing JavaScript D3 packages to visualize real-time crime activities on campus maps.
- Categorized crime types by threat level and visualized them using color to alert users.

Portfolio Auto Management *Github*

MACHINE LEARNING

- A machine learning project that explores the potential of implementing reinforcement learning in portfolio management and allocation within the stock market.
- Investigated multiple actor-critic reinforcement methods including PPO, A2C, SAC, TD3, DDPG, and ensembles of these agents. The final results suggest that while reinforcement learning may not currently be the best approach for stock market trading and portfolio management, it still holds considerable potential for future use.

Awards & Achievements

New York University Center of Data Science Scholarships *NY, USA*

NEW YORK UNIVERSITY *Aug. 2023*

- Awarded for academic excellence to students enrolled in the Master of Science in Data Science program.

Certificates

MITx MicroMasters in Data Science, Statistics *Remote, USA*

MITX & EDX *Aug. 2023*

- Foundational Concepts in Mathematical Statistics

MIT MicroMasters in Data Science, Probability *Remote, USA*

MITX & EDX *Jul. 2023*

- Core Principles of Probability Theory

Kingdee Enterprise Management Software Finance Specialist Certification *Beijing, China*

KINGDEE ENTERPRISE MANAGEMENT *Jul. 2023*

- Recognized proficiency in finance knowledge and deploying financial solutions using Kingdee Enterprise Management Software.

Organizations

Qiaomu Growth Non-Profit Education - An NGO/NPO in China *Hainan, China*

CO-FOUNDER AND MEMBER OF THE BOARD OF COUNCIL *Jan 2021 – Present*

- Formulated incentive systems and regulations, spearheaded recruitment drives, and orchestrated comprehensive training programs.
- Instrumental in securing the organization's inaugural project—Third Semester Rural Education Support Camp—fostering educational development in underserved communities.