

Liang Gao

Washington, DC | 504-312-8559 | liang.gao@gwu.edu
[linkedin.com/in/lianggao9/](https://www.linkedin.com/in/lianggao9/) | github.com/hslgao4

EDUCATION

The George Washington University, Washington, D.C. Dec 2024

Master of Science – Data Science (3.8/4.0)

Relevant Coursework: Deep Learning, Machine Learning, Natural Language Processing (NLP), Time Series Analysis & Modeling, Algorithm, Data Visualization, Data warehousing

Tulane University, New Orleans, Louisiana

Dec 2022

Master of Science – Finance (3.7/4.0)

Relevant Coursework: Accounting Analytics, Financial Modeling, Fixed Income Analytics & Model

University of Liverpool, Liverpool, United Kingdom

Jun 2021

Bachelor of Arts – Business Management

Xi'an Jiaotong - Liverpool University, Suzhou, China

Jun 2021

Bachelor of Arts – Business Administration

TECHNICAL SKILLS

Programming Languages: Python, R, SQL

Tools: PyTorch, TensorFlow, Sklearn, NLTK, Spacy, Dash, AWS Cloud, Microsoft Office

Certifications: Artificial Intelligence Foundations: Neural Networks, Introduction to Data Analysis in R Course

TECHNICAL EXPERIENCE

- **Predicting temperature with regression and time-series models | Python**
Forecasted temperature trends in Germany by analyzing 17,545 data points through multiple linear regression and the SARIMA model. Meticulously adjusted model parameters to account for both trend and seasonality in the target variable, enhancing model sensitivity analysis. Achieved an outstanding adjusted R^2 of 0.97.
- **Biomedical image segmentation with CNN architecture | Python**
Conducted advanced multi-organ biomedical image segmentation utilizing U-Net, a convolutional neural network (CNN), within the PyTorch framework. Responsibilities included preprocessing medical imaging data, model implementation, and parameter tuning. Achieved a high Dice coefficient of 0.93.
- **AI Book recommendation system with Transformer | Python**
Developed an advanced book recommendation system utilizing the Transformer architecture, specifically leveraging pre-trained BERT models. Employed sophisticated NLP techniques to analyze text from book reviews, enhancing the system's recommendation accuracy. Additionally, designed and implemented a user-friendly interaction application using Streamlit, providing a seamless user experience.

BUSINESS EXPERIENCE

- **Finance Intern, SEG Automotive, China** Sep – Dec 2020
Streamlined the internal audit process, reducing audit time by 20% by integrating Excel-based documents for accounting receivables.
Improved invoice processing efficiency by 30% through skilled use of a digital scanning system.
- **Finance Intern, China Resource Cement, China** Jul – Aug 2020
Collaborated with colleagues to streamline expense reporting procedures, resulting in a 20% reduction in processing time.
Ensured accurate accounting of expense reimbursements, including travel and welfare expenses, with zero discrepancies and strict adherence to company policies.

Business projects:

- **L'Oreal Business Competition (China)**
Conducted market surveys and identified a compelling new product idea. Conducted SWOT analysis and presented a business plan. Achieved top 100 ranking among 2,000 participating teams.
- **Cauchy Design | College Student Entrepreneur Project (China)**
Increased quarterly revenue by 10% through adjustment of sales strategy plan and operational changes. Utilized after-sales feedback data to adapt market plans, resulting in increased brand awareness. Developed team members' professionalism through training in customer service.