

Jihan Lee

Entry-Level Data Scientist

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EDUCATION

Emory University

Atlanta, GA

Bachelor of Arts in Economics/Computer Science – GPA: 3.96

Aug. 2020 - Present

Honors: Dean's List, Phi Eta Sigma (Freshman Honor Society), Omicron Delta Epsilon (Economics Honor Society)

Relevant Courses: Machine Learning, Data Science Computing, Database Systems, Economic Forecasting, Linear Algebra, Artificial Intelligence, Data Structures and Algorithms, Advanced Calculus, Causal Inference

Student Involvement: Emory Data Science Club, Emory Sports Analytics Club, Club Tennis

London School of Economics and Political Science

London, UK

Summer Study Abroad in Economics

Jun. 2023 – Jul. 2023

TECHNICAL SKILLS & LANGUAGES

Programming Languages: Python, R, SQL, Java, Stata

Frameworks/Libraries: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Tidyverse, LangChain, XGBoost, AIF360

Tools: Microsoft Excel, Git, GitHub, LaTeX, Monday.com, Neo4j

Languages: Korean, English

TECHNICAL PROJECTS

Student Advising Agent

Technologies: Python, Neo4j, OpenAI API, LangChain

- Designed a retrieval-augmented generation chatbot to enhance academic advising by conducting interviews and research to identify advising needs, implementing Neo4j graph database with 100+ nodes with vector indexes for improved search accuracy, and presenting results to an audience of over 50 stakeholders.

Fairness Analysis in Mortgage Lending | [GitHub](#)

Technologies: Python, Scikit-learn, Pandas, NumPy, LaTeX, Seaborn, AI Fairness 360

- Led the development and application of Random Forest and XGBoost models with more than 80% accuracy to detect and analyze biases within U.S. mortgage lending using the HMDA dataset with 16 million observations, suggesting bias reduction methods using AI Fairness 360; enhanced skills in ethical AI and data analysis.

Video Game Commercial Data Mining | [GitHub](#)

Technologies: Python, Scikit-learn, Pandas, NumPy, XGBoost, LaTeX, Matplotlib

- Directed the exploratory data analysis and processing of video game sales data, developing ensemble classification model with 70% accuracy to identify key factors driving commercial success through feature importance analysis; honed expertise in data visualization and data-driven decision-making skills.

EXPERIENCE

Emory University, The Scholarly Inquiry and Research Experience (SIRE)

Atlanta, GA

Student Researcher

Oct. 2023 – May 2024

- Examined interest rate transmission in the U.S. mortgage market using HMDA data with R and SQL, analyzing over 100+ million observations to uncover impacts of rapid monetary policy tightening on different leverage levels.
- Presented the findings at the Undergraduate Research Symposium with 50+ participants, receiving positive feedback from peers.
- Developed a web scraping algorithm in Python to collect and analyze commercial mortgage rate data, increasing data collection efficiency by 30%.

Emory Libraries

Atlanta, GA

Library Service Desk Student Assistant/Korean Studies Student Assistant

Jan. 2023 – Present

- Delivered exemplary customer service to library patrons, contributing to a smooth-running library environment by devoting 12+ hours per week and addressing 100+ issues per week.
- Utilized bilingual skills to catalog over 50 Korean books, significantly enriching the library's collection and improving resource accessibility.
- Conducted a thorough review of 30+ vendor catalogs, assisting the librarian in curating high-quality resources and expanding the library's Korean studies section by 5% from 4,900 books to 5,100 books.