JEREMY LI

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Education

Carnegie Mellon University   **Aug 2021 – May 2025**
Bachelor of Science in Data Science, Minors in Artificial Intelligence & Business Analytics   *Pittsburgh, PA*
- Relevant Coursework: Artificial Intelligence, Business Optimization, Computer Vision, Data Analysis, Data Mining, Data Structures & Algorithms, Machine Learning, Natural Language Processing, Probability, Statistical Regression
- Leaderships/Awards: Data Science Club Vice President, Quantitative Social Science Scholar (QSSS), Google Developer Student Club Board (GDSC), Dean's High Honors List, Greater NY Chinese Dollars for Scholars

Experience

Moderna Therapeutics   **May 2023 – Aug 2023**
Data Science Intern   *Cambridge, MA*
- Utilized advanced Natural Language Processing techniques to analyze over 250,000 employee survey responses, extracting critical insights that led to a 40% increase in data analysis efficiency within the People's Analytics team.
- Initiated the development of machine learning models, innovatively engineering features to categorize large survey datasets, which streamlined the dashboard building process and enhanced analytical capabilities.
- Transformed complex data into user-friendly dashboards, driving strategic decision-making among stakeholders.
- Researched advanced NLP models, improving analysis accuracy by 20% and setting new standards in data quality.

Carnegie Mellon University Statistics & Data Science Department   **Jun 2022 – Present**
Teaching Assistant   *Pittsburgh, PA*
- Facilitate weekly labs for statistics & data science courses, delivering instruction and guidance to 50 students.
- Conduct office hours to reinforce students' understanding of course materials for a large group of 300+ students.
- Maintain regular communication with faculty and students, providing constructive feedback on student progress throughout the semester to foster a collaborative learning environment and address challenges promptly.

Carnegie Mellon University Neuroscience Institute   **Jan 2022 – Sep 2022**
Data Analyst   *Pittsburgh, PA*
- Collaborated in early childhood behavioral and neuroimaging research, contributing to critical developmental insights.
- Crafted visually compelling dashboards and optimized data processes using Python and R, enhancing data accessibility and interpretability for developmental psychology research by 30%.
- Managed and executed advanced data extraction and analysis for over 15 datasets, converting raw data into key metrics, which significantly contributed to developmental psychology research and the publication of 3 research papers.

Projects

JPMorgan Chase & Co Data For Good Hackathon | *Machine Learning, Matplotlib, Pandas*   **Oct 2023**
- Facilitated a collaborative analysis of complex datasets to answer critical challenges from JPMC clients.
- Engineered innovative AI and ML solutions, deriving strategic insights for transformative nonprofit impacts.
- Presented a detailed breakdown of 24-hour project achievements to the JPMorgan Chase data science team, highlighting advanced data science, visualization, and analytical strategies.

Airbnb Tourist Guide for New York City: A Data Analysis Approach | *Data Science, SQL*   **Mar 2023**
- Utilized key Python libraries like Pandas, Numpy, and Altair to thoroughly process and analyze over 50,000 listings, substantially enhancing data-driven strategies and insights into market trends.
- Engineered interactive visualizations to offer users with comprehensive insights into NYC's dynamic Airbnb markets.

Unraveling Why Workers Quit | *Data Visualization*   **Jun 2022**
- Led a pioneering research study, crafting sophisticated statistical models to analyze intricate employee attrition factors.
- Executed comprehensive exploratory analysis using R and Tidyverse, revealing pivotal patterns accounting for 75% of attrition variance, and articulated these insights persuasively.

Technical Skills

Languages: Python, SQL, R, C, C++, Java, and TypeScipt
Developer Tools/ Frameworks: Amazon Web Services, Anaconda, GitHub, Jupyter Notebook, Linux, VS Code
Data Science: A/B Testing, Big Data, Data Cleaning & Preprocessing, Data Visualization, Database Management, Database Querying, Distributed Computing, Feature Engineering, Model Evaluation & Validation