ZHUOQUAN CHEN

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PROFILE

Data scientist with a strong background in computer science and data science. Passionate for providing effective data science solutions and applications in business. Creative problem solver and team player.

WORK PROJECTS

Stocks Portfolio Analysis   **Dec 2020**

Portfolio return calculation such as price-weighted portfolio, equal-weighted portfolio, and value-weighted portfolio. Explored the optimal portfolio of stocks, used Markov Chain Monte Carlo (MCMC) Simulations to find out a minimum investment risk portfolio and used Sharpe Ratio to select the optimal portfolio.

Covid-19 Case Count Analysis   **Nov 2020**

The primary aim of this analysis is to highlight the key factors that contributed to confirmation of Covid-19 cases in the United States. The goal is to create a model that can be used to predict future Covid-19 cases and cases of a future disease of similar magnitude. Then display comprehensive information of each state of the United States on Choropleth maps.

Games Classification   **Oct 2020**

Scraped game posts from the internet, through breaking down the contents to words, then analyzed and identified which content of posts belongs to board games and which content of posts belongs to card games by using Natural Language Processing.

Predicting House Prices   **Sep 2020**

Conducting analysis and creating a regression model based on the Ames Housing Dataset, which will predict the house prices at the sale in Ames, Iowa. Through this analysis and modeling, we can gain more insights into which factors can impact the market prices in Ames.

TECHNICAL SKILLS

Data Pre-processing: data cleaning and data visualization, PCA, dimensionality reduction, feature engineering.

Machine Learning: classification model, regression model, clustering, NLP, Time Series Analysis, Neural Networks.

Statistical Methods: Statistical Distributions, Bayesian Analysis, p-Values, Hypothesis Testing.

Software and Programming Languages: Python (Scikit-learn, Numpy, Pandas, Matplotlib, Seaborn, Plotly), SQL, Java, C++.

EDUCATION

General Assembly   **Sep 2020-Dec 2020**

Data Science Immersive Course

Brooklyn College   **Aug 2018-May 2020**

Bachelor of Science in Computer Science

Borough of Manhattan Community College   **Aug 2016-May 2018**

Associate of Science in Computer Science

OTHERS

Deep Learning Team   **Sep 2019-Jan 2020**

Joined Professor Tang's Deep Learning team in Computer Vision in BMCC college.

CUNY Hackathon 2019   **Dec 2019**

426 CUNY students united for three days to participate in workshops and hack with the goal of improving the greatest city in the world.