

Shuyu Pan

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HIGHLIGHT

Data analyst with hands-on experience in business analytics, machine learning, and optimization models. Proficient in Python, SQL, R, and MATLAB. Google Data Analytics Certified. A detail-oriented and analytical problem-solver with strong teamwork and communication skills.

EDUCATION

- Boston University**, Boston, MA 09/24-02/26
- Master of Science, *Applied Business Analytics* GPA: 3.93
 - Related courses: Business Analytics Foundations, Operations Management: Business Process Fundamentals, Financial Concepts, Quantitative and Qualitative Decision-Making, Enterprise Risk Analytics, Marketing Analytics, Web Analytics for Business, Data Mining for Business Analytics
- University of British Columbia**, Vancouver, BC, Canada 09/19-11/23
- Bachelor of Science, *Mathematics*

TECHINICAL SKILLS

- Programming Languages:** Java, Python, SQL, Matlab
- Tools and platforms:** Git, Linux, OSX, Windows
- Web Technologies:** HTML, CSS, JavaScript, AWS

WORKING EXPERIENCE

- Algorithm intern at Yuanguang Energy Internet Industry Development (Hengqin) Co.,Ltd**, Beijing, China 03/24-07/24
- Conducted statistical analysis of power consumption data in the iron and steel industry.
 - Developed models in Vensim to analyze the impact of energy consumption factors on production and sales.
 - Designed a Python GUI for interactive visualization of energy efficiency findings.
 - Built a Python-based optimization model for office equipment distribution based on power consumption metrics.
- Operation Intern at JD (Jingdong)**, Beijing, China 05/21-08/21
- Assessed supplier qualifications, store openings, and merchant product listings against predefined standards.
 - Identified qualification fraud cases, documented detailed reports, and submitted findings to supervisors.
 - Collected and aggregated public opinion data on merchants using Excel, generating weekly reports for senior management.
 - Coordinated with procurement, sales, and suppliers to address product-related complaints, tracking issue resolutions.
- Lobby Manager Assistant Intern at China Construction Bank**, Xi'an, Shaanxi, China 03/21-04/21
- Assisted customers in using self-service banking machines and provided financial guidance.
 - Collected and verified customers' financial information and Social Security card distributions.
- Salesclerk at LEGO**, Xi'an, Shaanxi, China 02/21-03/21
- Recommended LEGO products based on customer needs and managed in-store sales operations.
 - Organized and participated in in-store events for children, contributing to event planning.

SELECTED ACADEMIC PROJECTS

- Predicting Tennis Players' Best Rank from Prize Money Earned** (Group) 12/21
- Processed player_stats.csv dataset containing ATP rankings of 500 tennis players.
 - Filtered and cleaned data, focusing on Best Rank, Prize Money, and Plays, removing null values.
 - Analyzed correlation between Best Rank and Prize Money using visualizations and statistical techniques.
 - Applied K-Nearest Neighbors (KNN) regression algorithm for ranking predictions.
 - Summarized data insights by calculating mean, max, and min prize money per ranking group.
- Machine Learning Techniques for Predicting Stroke** (Final Project) 01/23-04/23
- Conducted exploratory data analysis and visualization using Python to identify stroke-related risk factors.
 - Implemented various machine learning models, optimizing performance using ROC/AUC analysis.
 - Identified Multinomial Logistic Regression as the best model for unbalanced datasets based on G-Mean comparisons.