

RUNSEN XUE

runsenxue214@gmail.com | (585) 354-4384 | <http://www.linkedin.com/in/runsenxue>

PROFESSIONAL EXPERIENCE

Hellobike

Shanghai, China

Data Analyst Intern

May 2023 – August 2023

- Authored over 1000 intricate SQL queries, encompassing Subqueries, Window Functions, Case When, etc., to extract and transform over 2 million lines of data from diverse databases on the cloud, including Hive, MySQL and PostgreSQL, effectively driving the execution of more than 10 ETL pipelines and contributing to a notable 30% boost in productivity.
- Developed and released over 8 Tableau reports and interactive dashboards incorporating diverse visualizations like bar graphs, scatter plots, and line graphs to visually represent changes in key indicators and provided valuable insights to senior data analysts, resulting in the recovery of tens of thousands of dollars.
- Collaborated closely with multiple product and operation teams to pinpoint areas for enhancement, successfully addressing more than 5 business needs and achieving a 100% data accuracy rate.

The Pacific Securities Co., Ltd

Beijing, China

Intern Research Assistant

June 2021 – August 2021

- Utilized Python to collect and preprocess financial data from various sources, conducted descriptive statistics, facilitating an assessment of the gaming industry's financial performance and the discovery of underlying business challenges.
- Conducted web crawling using the Python library Beautiful Soup to collect data on around nine thousand gaming licenses issued between 2017 and 2021 and performed a linear regression analysis, confirming a positive relationship between the number of licenses issued and company stock prices.
- Utilized PESTLE and SWOT methodologies to assess the industry landscape, identify potential obstacles, and ascertain that China's gaming industry offers considerable market opportunities and is currently in a growth phase.

EDUCATION

Simon Business School, University of Rochester

Rochester, NY

Master of Science in Business Analytics (STEM-Certified Program)

July 2022 - December 2023

- Relevant Modules: Data Management, Warehousing & Visualization, Predictive Analytics Using Python, Predictive & Causal Analytics in R, Big Data, Social Media Analytics with Python, Prescriptive Analytics with Python

Macau University of Science and Technology

Taipa, Macau

Bachelor of Business Administration, Business Analytics track

September 2018 - June 2022

- Relevant Modules: Advanced mathematics, Linear Algebra, Calculus II, Data Structure and Database, Big Data, Data Mining, Management Information Systems, Business Forecasting, Python for Quantitative Finance

Predictive Retention Strategies for Benefit Resource Company (Capstone Project)

Rochester, NY

Leader

September 2023 – December 2023

- Led a predictive analytics capstone project cooperated with Benefit Resource Company, tasked with identifying potential client churn. I conducted exploratory data analysis using Python, developed multiple machine learning models (Decision Tree, Random Forest, Adaboost, KNN) for churn prediction, and ensured result interpretability, significantly enhancing client retention strategies and providing actionable business insights, which can reduce customer churn by 20%.

Project for Predictive Analytics Using Python: Decision Support System Establishment for Banking Industry

Leader

March 2023 – April 2023

- Leveraged Principal Component Analysis (PCA) for dimensionality reduction and radar chart visualization, enabling tailored recommendations for clients with suboptimal risk assessments. Employed Python machine learning algorithms (KNN, Decision Tree, Random Forest, SVM, Logistic Regression) to evaluate home loan risk with an impressive 85% accuracy rate and created an intuitive Streamlit interface to improve loan application decision-making for bank sales representatives, resulting in a significant 30% reduction in the likelihood of millions of dollars becoming bad debt.

ADDITIONAL INFORMATION

- Language Skills: Mandarin Chinese (Native), English (Bilingual), Portuguese (Basic)
- Technical Skills: Python (Pandas, NumPy, Matplotlib, Scikit-learn, BeautifulSoup, TensorFlow), R, Spark, AWS, SQL (MySQL, Presto, PostgreSQL, Hive SQL), Tableau, Microsoft Suites (Word, Excel, PowerPoint), Machine Learning Algorithms (Linear Regression, Logistic Regression, Decision Tree, Random Forest, KNN, Neural Network, K-means)