Yiran Jing

Data Scientist Intern at Lagardere | Undergraduate Student at University of Sydney

4rd-year student love data, study statistics, computer science and business analytics.

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EXPERIENCE

Data Scientist Intern
Lagardere Travel Retail
12/2019 – Present   *Sydney, Australia*

Lagardere Travel Retail is a pioneering global leader in the travel retail industry. Operating retail stores over Travel Essentials, Duty Free & Fashion, and Foodservice.

- 'Out of stock' and 'Inventory optimization' analysis using PySpark and build PowerBI dashboard. - Price Elasticity/Optimization analysis.
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- Relational database designing on Azure DB.

Data Scientist Intern
Douugh
08/2019 – 11/2019   *Sydney, Australia*

An Australian fintech start-up, AI led technology platform

- Multi-Classification for a 'smarter' decision on transaction (sub)category using Natural language Processing and Neural Network modeling. Monitor model lifecycles on MLflow
- Numerical dataset creation, cleaning using NLP. Collect support dataset using Yelp API, (American's Restaurants name etc.)
- Data quality improvement, build automated tools for feature selection.

Data Engineer Intern
Taysols
06/2019 – 08/2019   *Sydney, Australia*

Australia's leading cloud, consulting for Business Analytics solutions.

- Provision of data cleaning, EDA, hypothesis testing, statistical analysis and ML model turning (multiclass XGBoost, ARIMA, and DeepAR+) services utilizing Python.
- AWS SageMaker for training, deploy and validate standard AWS ML models (hosting service and batch transformation). Turning models utilizing WAS SageMaker customized SciKit models.
- Build Lambda functions for real-time predictions and batch predictions. Monitoring CloudWatch for in-time performance.

Data Analyst
Chain noodle Restaurant Macaroni of Zhang grandpa
07/2019 – Present

Market and customer analysis for chain noodle restaurants

- Build MeiTuan AppSpider to scrape information customer comments from thousands of food restaurants using Python. Then build AWS lambda to automatically update customer comments monthly.
- Using wordcloud, statistical inference, data visualization to analysis the relationship among price, order quantity, eating preference, consumption level, regional price difference, free wifi service, etc.

Project Participant
ANOVA Project
02/2018 – 12/2018   *Sydney, Australia*

ANOVA Project is the first pro-bono STEM Consulting Student Organisation

- Intellify Project (2018 Semester 2:): Topic: Pricing Optimization; Work with ANOVA group members, supervised by Intellify Pty Ltd. Taking into account for cross-product and external effects. Time series, statistics, R and Python knowledge are applied to this project.
- Equitise Project (2018 Semester 1): Data service for Equitise Pty Ltd (Sydney). Provided valuable insights and suggestions based on their customer/trading data. Applied Python and statistical modeling knowledge in this project.

SKILLS

Python; R; SQL; Java; JavaScript; Git

AWS; Spark; hadoop; Power BI

NLP; Statistical modeling; (Un)-supervised Learning

EDUCATION

Bachelor of Science and Advanced Study
University of Sydney
07/2016 – 11/2020

Majors are Statistics and Data Science; Minors are computer science and business analytics

- Statistics (90)
- Computer Science (89)
- Mathematics (84)
- Business Analytics (92)

NOTABLE AWARDS

Academic Merit Prize and Dean's List for Academic Achievement
University of Sydney

- Awarded to top 600 students every year

Course Rankings Top 3
University of Sydney

- Statistical Tests (STAT2012); Introduction to programming (INFO1103); Analysis (MATH2023); Management Science (QBUS2310); Predictive Analytics (QBUS2820); Advanced Analytics (QBUS3830)

RESEARCH

Power Demand Forecast of South Australia (09/2018 – 11/2018) (09/2018 – 11/2018)
Reducing Power Supply Costs in South Australia using Statistical time series and Neural Network, based on 30 mins time series demand data and Bureau of Meteorology Adelaide weather data.

Undergraduate Research Assistant at Tsinghua University (12/2017 – 02/2018)
Topic: Predict the primary market of Art in China (Econometrics Program). Web-Crawler using python, crawling the resumes of artists automatically on gallery websites. Wrote package utilizing python to automatic fetch keywords in resumes.

Mathematics Research Assistant Summer Scholarship at the University of Melbourne (01/2017 – 02/2017)
Topic: Improve HAR Models for Realized Co-variance: Long-memory Forecasting with Dynamic Attenuation in Multivariate Cases (MATLAB). Applied models to forecast the motion of the realized volatility based on five minutes returns real financial data.