Yiran Jing

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

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EDUCATION

Bachelor of Science and Advanced Study
University of Sydney

07/2016 – 11/2020 *WAM HD+*

Major Statistics and Computer Science; Minor Mathematics and Business Analytics

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

EXPERIENCE

Data Science Intern
Taysols

06/2019 – Present *Sydney, Australia*

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

Achievements/Tasks

- Provision of data cleaning, EDA, feature engineering, 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 the best machine learning models utilizing WAS SageMaker customized SciKit models, with business idea/insight suggestion, written up to Latex documents.
- Build Lambda functions for real-time predictions and batch predictions, also clean data within Lambda Function. Monitoring CloudWatch for in-time performance. Give insights about the model performance and further improvements.
- Provision of Amazon forecast services utilizing ARIMA and DeepAR+. Compare and discuss the pros and limits of the classical time series models versus ML models based on different real data cases.

Project Participant
ANOVA Project

02/2018 – 12/2018 *Sydney, Australia*

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

Achievements/Tasks

- Intellify Project (2018 Semester 2:): Topic: Pricing Optimization; Work with ANOVA group members, supervised by Intellify Pty Ltd. Tried to develop pricing optimization solution to maximize price for products and stores, 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 to Equitise get insight based on their customer/trading data. Applied Python and statistical modeling knowledge in this project.

Python Helper/Mentor
University of Sydney

02/2018 – 11/2018 *Sydney, Australia*

Achievements/Tasks

- Mentor at IT: The mentor of INFO1110 (Introduction of programming/ Python) Semester 1, 2018.
- Lab Assistant to Postgraduate unit BUSS6002 (Data science in Business) and Undergraduate unit Python helper of QBUS2820 (Predictive Analysis) in Semester 2, 2018.

SKILLS

Python; R; Java; SQL; Hadoop; Flink; JavaScript

AWS Lambda; Amazon SageMaker; Amazon Forecast

Modelling: Statistical; ML; (Un)supervised

Data Cleaning; Feature Engineering

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)

PROJECTS

Power Demand Forecast of South Australia (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.

Telecom Customer Churn Prediction (Individual) (06/2019 – 07/2019)

- Using Amazon sagemaker XGboost, Amazon Lambda and Sklearn; Data cleaning and visulaization, feature engineering

Golf Amount Forecast with Weather data (Individual) (07/2019 – Present)

- Clean data with visualization, select most relevant weather data; Turning hyperparameters of univariate and multivariate DeepAR+ model using Amazon Saemaker
- Stationary transformation with hypothesis test for classical time series model; Compare classical model with DeepAR+

Walkability Analysis of Sydney (10/2017 – 11/2017)

- Perform a walkability analysis for different neighbourhoods in the Greater Sydney area using SQL and Google Map API.

RESEARCH

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.