JINGJING (OLIVIA) LIANG

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EDUCATION

UNIVERSITY OF MINNESOTA, Minneapolis, MN

Candidate for Master of Science in Business Analytics (Carlson School of Management - STEM)

May 2020

MINZU UNIVERSITY OF CHINA, Beijing, China

Bachelor of Science (Honors) in Financial Management

June 2019

• Exchange student, University of Minnesota, Minneapolis (Fall 2017)

WORK EXPERIENCE

CARLSON ANALYTICS LAB, Minneapolis, MN

Analytics Consultant

July 2019 – May 2020

Client: Fortune 10 Healthcare Company

- Integrated 60M+ clinical data on AWS S3 and documented descriptive analysis and visualization using Redshift and Tableau.
- Tailored metrics for statistical similarity evaluation using KL-divergence and data reduction techniques such as Auto-encoder neural network, PCA, and t-SNE for visualization, which proved clinical data from GAN algorithms has over 95% similarity.
- Acted as an Engagement Manager, ensured timely communication to all stakeholders, created project timeline on Jira and worked with the team to achieve breakthrough on synthetic data methodology that enables confidential data sharing safely.

Client: Leading Hospitality and Entertainment Business

- Evaluated business impact of 100M+ coupons promotion and performed customer segmentation using clustering in Python.
- Optimized coupon allocation using Association Rules analysis, the result of which potentially increased 128k+ headcounts.
- Created a story-telling dashboard in Power BI, designed marketing strategies using A/B testing to validate analytical result, and the presentation of which to all stakeholders won the second place among 24 submissions.

Client: Mall of America

- Created a dynamic geo-dashboard in Tableau and transformed data into a compelling visual story that reports hourly hotspots.
- Explored 34K+ call logs using statistics and regression model to uncover calling patterns and forecast the number of calls.
- Educated the use of the geo-dashboard and presented actionable staff allocation plan to non-technical stakeholders.

IOIYI.com, Beijing, China

Data Analyst, User Growth Department

December 2018 - April 2019

- Integrated user data distributed among 30+ major mobile channels in MySQL and crafted periodic reports in Power BI.
- Assessed and adjusted data gap between local and cloud databases and increased the database quality and integrity by 40%.
- Collaborated with cross-functional teams to design analytical solutions for ad hoc demands and explain analytical results.
- Forecasted active user data using Regression model in R and created prototype in Excel and PowerPoint for reporting.

DELOITTE, Beijing, China

Risk Analyst

April 2018 - July 2018

- Conducted time series forecasting on 20k+ industry-level investment data using ARIMA model to uncover investment trends.
- Designed Tableau dashboard and translated investment patterns in different industries to non-technical senior stakeholders.
- Predicted investment risk using Logistic Regression and Decision Tree and identified factors that leads to high risk in Python.

INDUSTRIAL & COMMERCIAL BACK OF CHINA, Beijing, China

Financial Analyst

June 2017 - August 2017

- Manipulated 10K+ personal loan data using SQL and created descriptive reports on demography and performance in Python.
- Created prototype on data integration and data engineering for credit fraud detection, which reduced project duration by 40%.

DATA SCIENCE PROJECTS

Inferential Experiment (A/B testing): Collected 500+ survey data and designed a causal inference experiment in R using randomization to analyze whether people are more likely watch a Netflix show where the thumbnail includes a person of their race.

Time Series Forecasting (ML): Conducted feature engineering and built Seq2Seq model with LSTM on 296K+ training visit records to forecast the number of visitors on specific dates for 150 Restaurants, the result of which ranked in top 20% on Kaggle.

Ad Click Prediction (Big Data): Performed batch processing and Random Forest modeling with Spark SQL and MLlib on AWS EMR to predict Ads click-n through rate on 100 GB relational dataset, then built visualization dashboard using QuickSight.

SKILLS

Tools: MySQL, Python, R, Tableau, Power BI, AWS, MS Excel, MS PowerPoint, Hadoop, Hive, Spark, CPLEX, Jira, Stata, SPSS **Techniques:** Data Visualization, Descriptive Analysis, A/B Testing, Machine Learning, Data Warehousing, Big Data, NLP