ZHUORAN PAN

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EDUCATION

Honours Bachelor of Science

Sep 2016-Jun 2020

University of Toronto, St. George, Toronto, ON

Double Major in **Statistics & Economics**, Minor in **Mathematics**

WORK EXPERIENCE

Data Analyst Intern, E-commerce Department, Misumi Group Inc., Shanghai, China Jun 2019-Aug 2019

- Collaborated with Business Intelligence/Data Governance team to build and extract appropriate and accurate data sources in **SQL** to support the department's reporting and analytical needs
- Utilized Google Analytics combined with various machine learning models to analyze and propose actionable strategies regarding website traffic data and consumer trends
- Developed a data pipeline using Python to scrape data from Google Analytics, load data into PostgreSQL databases for querying, and automate the daily reports in Excel-based templates, reducing time consumption by 95%
- Wrote 16 ad hoc automated scripts using **Excel VBA Macro/Python** to increase efficiency and improve the accuracy of internal processes thus eliminating a vast number of operational errors
- Created interactive **Tableau** dashboards to track KPIs, visualize trends and highlight abnormal patterns

Data Analyst Intern, Marketing Department, Intco Medical, Toronto, ON

Jun 2018-Aug 2018

- Worked in a cross-functional team to provide strategic market insights for senior executives, maintaining sources of truth data and dashboards to help drive quantitatively informed and evidencebased business decisions
- Analyzed sales data through Salesforce.com, and summarized findings using BI tools (Tableau and Excel) to generate daily, weekly and monthly reports that improved customer retention as well as strengthened internal analytical abilities
- Built predictive models using **Python** to forecast customer session conversion behavior, suggested SEM strategies based on the best model and quantified monetary effect
- Translated the business requirements into SAS / SQL codes to obtain timely deployment of direct marketing campaigns

PROJECT EXPERIENCE

Data Analyst, Kaggle Prediction Competition-M5 Forecasting

Apr 2020-Jun 2020

- Applied knowledge and skills in data analytics and machine learning algorithms to predict itemized sales at Walmart for over 3,000 products in 10 store locations over two 28-day periods
- Decomposed and segmented the sales data (> 1 million lines) by performing exploratory data analysis as well as feature engineering
- Estimated each item's sales by building a light gradient boosting machine in **Python** and improved the model accuracy through model training, cross validation, and parameter adjustments

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Analyst, Case Study: Analyzing Confounding Factors of Teenager Smoking

Nov 2018-Dec 2018

- Performed distribution analysis to the data set using R and implemented data visualization using R ggplot to investigate the correlation between the key demographic characteristics and the output (possibility for a teenager to smoke)
- Tested on different generalized linear regression models and selected the best performed logistic regression model in terms of adjusted R-squared score
- Constructed the logistic regression model, presented ANOVA diagnosis analysis based on the estimated parameters and further examined the appropriateness of the model
- Interpreted the model results, drew statistical inferences, and summarized in report using RMarkdown

EXTRACURRICULAR ACTIVITIES

Participator, 2020 Electronic Undergraduate Statistics Research Conference, ASA

Nov 2020

- Watched academic presentations by winners of Undergraduate Statistics Project Competition
- Joined the panel discussion about careers in statistics & data science industry and government
- Acquired valuable information of succeeding in graduate school study and future career path

Member, Independent Summer Statistics Community, University of Toronto

Apr 2020-Now

• Participated actively in the weekly workshops focusing on the study and application of GitHub, data visualization, web scraping, Shiny dashboards, etc.

Member, Machine Intelligence Student Team, University of Toronto

Sep 2018-Sep 2020

- Explored and applied the algorithms of machine intelligence to real-world scenarios, participated in project-based workshops and events on the influence of machine learning and data science in real life
- Attended monthly meetings to discuss research into the latest machine learning techniques and to apply them to emerging applications

Volunteer, Accessibility Services, University of Toronto

Sep 2017-Sep 2018

• Listened to class discussions attentively, took lecture notes, and shared notes with approximately 13 students with disabilities taking the course

PROFESSIONAL TRAINING & CERTIFICATION

- Machine Learning online course by Stanford University via Coursera (In progress)
- AWS Certified Data Analytics Specialty (In progress)
- Google Analytics Individual Qualification (In progress)
- Microsoft Office Specialist: **Excel** Associate (In progress)
- SAS Certified Base and Advanced Programmer for SAS 9 (2019)

SKILLS

- Programming: SQL, Python, R, SAS, HTML, JavaScript, MATLAB
- Tools: PostgreSQL, SQL Server, Salesforce, Google Analytics, Tableau, Excel, Access, AWS, Github
- Skills: Statistical Analysis, Data Visualization, Data Modelling, Dashboarding, A/B Testing