

BRIAN CHI YAN LI

Detail-oriented professional skilled in statistical programming and machine learning, proficient in SQL, R, and Python. Strong problem-solving abilities to support analytics, process automation, and business enhancements.

EDUCATION

- 05/2019
|
08/2017

Master of Science in Statistics (GPA: 3.9)
North Carolina State University
Raleigh, NC
- 05/2014
|
08/2012

Master of Science in Engineering Management CO-OP (GPA: 3.5)
Purdue University
West Lafayette, IN
- 05/2012
|
08/2007

Bachelor of Science in Chemical Engineering (GPA: 3.6)
Purdue University
West Lafayette, IN
- Minor in Mathematics and Economics**

WORKING EXPERIENCES

- Current
|
01/2023

Data Scientist
Levi's
Orlando, FL (Remote)

- Apply XGBoost, lightGBM, CATboost with lag features to build shipping demand forecasting for Europe and sizing forecasting for USA/CA using Python
 - Monitor prediction accuracy by WMAPE and perform hyperparameter tuning/retraining with Optuna
 - Maintain a CI/CD sellout data pipeline and build test cases to alarm data changes
 - Migrate Europe forecast from AWS SageMaker to GCP Vertex Instances and refactor code to reduce ~15% runtime
 - Research ways of model splitting and apply prophet time series on a subset of products to reduce WMAPE by ~12%
 - Build an analytical chatbot using LLM to enable business planners self inquiry without writing SQL during a google x Levi's GenAI Hackathon
 - Adopt Agile philosophy and share findings through confluence documentation
- 01/2023
|
08/2021

Principal Data Scientist
Verizon
Lake Mary, FL

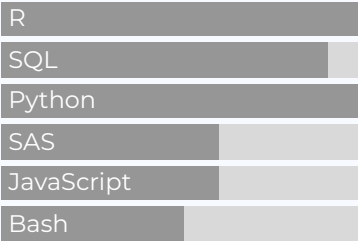
- Apply statistical models including Logistic Regression, Generalized Linear Models with Regularization (Lasso/ Ridge), CART, Random Forests, Extreme Gradient Boosted Tree to develop production ready score cuts in consumer credit and fraud red flag policy
 - Wireless involuntary churn forecast using Python random forest model and Cox proportional hazard model
 - Build a Qlik dashboard tool with REST API to automatically update churn forecast trending vs budget to client, eliminating manual update work
 - 5G Home credit modeling and optimization to determine deposit schemes that maximize cash flow given variable costs and write off probability
 - Translate R code of Loan Loss Forecasting to Python and migrate from Unix to GCP
 - Cross train other team members on scorecut modeling/generation with new EFX Fraud Superscore and Neustar score
 - Act as subject matter expert on probability scoring for accuracy monitoring, and Oxford Economics macroeconomic correlation analysis for SOX compliance



CONTACT

8787 Lookout Pointe Dr.,
Windermere, FL 34786
ziyong68@gmail.com
765-413-3280
github.com/ziyong68

PROGRAMMING SKILLS



OTHER SKILLS

Tools: Teradata, Hadoop, Spark, Docker, Airflow, GCP Vertex, AWS SageMaker

Reporting Systems: Qlik, SAP Business objects, Eclipse BIRT, Jira, Confluence

Languages: English, Mandarin, Cantonese

CERTIFICATIONS

Lean and Six Sigma Green Belt Certificate, Purdue University

Managing Big Data with MySQL, Duke University

Python Programming Certification, University of Michigan

FCRA Data User Certification program through CDIA

08/2021
|
01/2019

Data Scientist

Verizon

📍 Lake Mary, FL

- Implement Multi Adaptive Regression Spline (MARS) model to forecast performance on variable term loans in order to predict exposure at default for 6-, 30- and 36-month device payment plan loans
- Optimize FraudIQ score threshold of red flag policies to stop identity frauds from entering credit check and prevent losses (estimated with 700K to 1 million per month)
- Transform Ignite credit bureau data assets using Impala SQL in Hadoop clusters and perform quality control & data deduplication
- Initiate the use of R markdown with knitr during CECL auditing to automatically generate dynamic documents that integrates model statistics, interpretation and validation plots with inline code
- Develop a new scorecut automation to generate post NITP v2 score launch adapting both volume neutral and risk neutral strategy at different time
- Create new R functions for team library, such as Teradata mload API and aggregated empirical probability density/ cumulative distribution functions

01/2019
|
08/2014

Planning Analyst

Walt Disney Parks & Resorts

📍 Lake Buena Vista, FL

- Project lead for strategic facilities planning of Disney Springs and ESPN Wide World of Sports (\$15M annual)
- Develop BIRT user reports using SQL to query data and create custom functionalities with JavaScript under Eclipse IDE
- Perform data cleansing and migration from a project based (Maximo) to an equipment-based database application (Tririga)
- Initiated projects to replace sport field light fixtures, with a total savings of 44% of the original energy consumption

08/2014
|
09/2013

Professional Intern

Walt Disney Parks & Resorts

📍 Lake Buena Vista, FL

- Analyzed conditions of various property assets (e.g. roofing, light poles, HVAC systems) and predict the timing of next major maintenance or upgrade
- Collaborated with an architectural consulting firm to transform Disney roof survey results into quantifiable data, used for plotting roof material degradation curves
- Identified approximately 920 projectors/screens across locations and created an inventory with comprehensive specifications and warranty documentation



RESEARCH & PROJECTS

Current

R Shiny App for Forest Fire analysis

Github

📍 <https://brianli.shinyapps.io/Forest-Fire-Investigation/>

05/2012
|
01/2012

Study of Biomass Torrefaction

Purdue University

📍 West Lafayette, IN

- Applied linear regression to determine the kinetic order of Fatty Acid Methyl Ester (FAME) production and optimize yield

05/2012
|
01/2012

AICHE Chem-E-Car Design

Purdue University

📍 West Lafayette, IN

- Drove a Lego built pneumatic engine with CO2 released in an acid-base reaction under controllable conditions. The team was awarded a second place (2/10) recognition in the regional competition held in the University of Akron