MOYI LI

Seattle, WA | +1 206-422-0513 | moyil@uw.edu

EDUCATION

University of Washington, Seattle WA

Expected Graduation in 06/2024

- Major: Bachelor of Science in Applied Mathematics: Data Science Track
- Double Minor in Informatics and Data Science
- Cumulative GPA: 3.95/4.0
- Awards and Honors: Dean's List for six consecutive semesters
- Relevant Coursework: Linear Algebra, Differential Equations, Probability, Statistical Methods, Quantitative Finance, Database Systems, Machine Learning, Data Programming in Python, R, and SQL; Scientific Computing in MATLAB

PROFESSIONAL EXPERIENCE

Financial Data and Model Analyst (Python, SOL)

Conroe, TX

Internship | Weicepts LLC

06/2023 - 09/2023

- Generated precise payment schedules for users by building amortization tables with univariate analysis as foundation
- Effectively compared actual and scheduled cash flow through SQL-based operation to compute SMM & CPR for 50k loans
- Delivered a comprehensive bivariate analysis report involving over 30 variables to assess a 3-month delinquency rate
 - Focused on potentially relevant variables and investigated & analyzed the trends and factors in different U.S. regions (CA and FL) from 2009 to 2019

RESEARCH & PROJECTS

Medical Appointment Reservation System (Python, SQL, Azure)

Seattle, WA

Personal Project | University of Washington

03/2023 - 06/2023

- Introduced an automated appointment reservation system featuring auto-incremented IDs, real-time vaccine inventory updates, and user-friendly appointment verification with details like vaccine quantities and dates
- Designed database schema with E/R diagram and established distinct data models of Caregiver, Patient, and Vaccine
- Created a secure account registration system for caregivers and patients, leveraging Azure's could database for realtime password management; employed robust salting & hashing techniques and enforced stringent password verification measures
- Developed a synchronized schedule-search system that connects with Azure, allowing patients and caregivers to access the caregiver's availability and vaccine stock information at any time

EdX Student Model Training and Evaluation (Python)

Seattle, WA

Group Research, Group Leader | University of Washington

03/2022 - 06/2023

- Utilized multiple machine learning models including Logistic Regression, K-Nearest Neighbors, Decision Trees, Random Forests, AdaBoost and Neural Networks to predict course completion based on anonymized student data
- Achieved a 98.2% prediction accuracy in Kaggle competition, ranking first among 81 teams
- Preprocessed a 10k-record dataset, conducted train-test split, and enhanced performance by fine-tuning numerous hyperparameters; Applied Grid Search and ElasticNet techniques across all models
- Created visualizations such as heatmaps, confusion matrices, and line plots, and conducted a comparative analysis of train accuracy versus validation accuracy across different models

Cancer Population Trend Analysis and Interactive Websites (R)

Seattle, WA

Group Research, Group Leader | University of Washington

12/2022 - 03/2023

- Developed an interactive webpage using the package, Shiny, in R and extracted & transformed relevant features from the U.S. Cancer Statistics Database to improve user experience
- Designed corresponding server with user interactive linear plot, trend plot, pie chart, and choropleth map
- Launched the interactive webpage in HTML format online along with GitHub repository and analysis reports

SKILLS & INTERESTS

- Proficient Technology Skills: Python (NumPy, pandas, geopandas, matplotlib, sklearn, seaborn, plotly), R (ggplot2, shiny, dplyr, tidyr), MATLAB, SQL, GitHub, Power BI, Azure; PS, AE, PR, QGIS (Quantum Geographic Information System)
- Language Skills: Mandarin (Native), English (Fluent), and Japanese (Proficient)
- Interests: Cooking and Baking, Photography, Skiing