Chi-Hua Wu

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EDUCATION

University of Connecticut, School of Business May 2020

- Master of Science, **Business Analytics and Project Management, GPA: 4.0/4.0**
- Relevant Courses: Data Science with Python, Predictive Modeling, Introduction to Deep Learning, Business Decision Modeling, Data Mining, Statistics in Business Analytics, and Business Process Modeling & Data Management

Fu Jen Catholic University Jun. 2015

- Bachelor of Science, **Statistic and Information Science, GPA: 3.8/4.0**
- Relevant Course: Mathematical Statistics, Multivariate Statistical Analysis, Time Series Analysis, and Regression Analysis

WORK EXPERIENCE

Potoo Solutions Jan. 2020 − May 2020

Graduate Analyst Consultant

- Developed a predictive model to shed light on the new e-commerce centric supply chain and its most influential factors
- Used SQL and Python to clean, combine, filter, and restructure multiple large datasets (millions of records)
- Built multi-label classification models to discover patterns and insights regarding resellers and their product sources
- Executed deliverables of Python-Tableau Dashboard to the CEO to ensure feasibility and application of the model

University of Connecticut MSBAPM Jan. 2020 − May 2020

Graduate Teaching Assistant – Dr. David W. Wanik, Data Science using Python

- Performed all assistant teaching duties including mentoring, lecturing, grading and researching
- Contributed to lesson materials and tutorials regarding data visualization, data wrangling, and machine learning packages
- The materials covered Python's packages: Scikit-Learn, Numpy, Pandas, Matplotlib, Seaborn, Plotly, PDP, and TSFresh

Forkaia Sep. 2019 − Dec. 2019

Data Scientist Intern

- Performed customer segmentation analysis (KNN) with Python to discover patterns and insights regarding customer behavior
- Used SQLAlchemy to build a relational database from multiple files to increase the efficiency of managing data
- Built several binary classification models to determine the most influential features on the customer churn rates

Cadenza Innovation Feb. 2019 − May 2019

Business Analytics Consultant

- Built an Energy Storage Systems model to determine the variables of Energy Storage to reduce energy cost and energy waste
- Used Excel Solver to optimize the battery usage and it could have saved ten thousand dollars and taken five payback years
- Presented a research project regarding Energy Storage to get an optimal component sizing for peak shaving

PROJECTS

Airline Twitter Sentiment Analysis

- Presented a workshop to Atlas Air on project findings and potential usages for an internal audit team
- Discovered passengers' sentiment behind the streaming tweets (using Tweepy API) to improve the customer experience
- Used TextBlob NLP package and scikit-Learn package with Python to perform sentiment analysis and text clustering analysis

Synchrony Hackathon

- Presented the project and won 2nd place in the Synchrony Hackathon
- Combined features in collaborative financing and created a working product using Plotly Dash package with Python

Loan Service Database

- Built a database for loan service to implement databased design (Entity Relationship Diagram) and SQL queries into business
- Displayed queries with multiple table joins to explore data and fulfill user requirement

Voya Financial Data Challenge

- Developed predictive models for campaigns with high email click-through rates and found its most influential factors
- Conducted text analysis on the email subjects and contents to extract more information from the original dataset
- Performed association rules to discovering relationships among features and the target variable

TECHNICAL SKILLS

- Data Analytics: Python (Numpy, Pandas, Scikit-Learn, Tensorflow, PyTorch), R, SAS, JMP, IBM SPSS, Microsoft Excel
- Database Management: SQL (MySQL, Oracle Database), NoSQL (MongoDB)
- Data Visualization: Python (Matplotlib, Seaborn, Plotly), Tableau, Power BI