

Chih-Hao(Howard) Tseng

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Data Scientist with great passion for statistics in daily life

EDUCATION

- The University of Texas at Dallas** Texas, United States
M.B.A.&M.S., Business Analytics-Data Science track (GPA 3.92/4.0) Dec. 2020
- Dean's Excellence Scholarship
 - Yancey Hai Fellowship
- National Chengchi University – Ranked 2nd-best in Taiwan** Taipei, Taiwan
B.S., Economics, minor in Statistics (GPA 3.56/4.0) Jan. 2016
- Achieved the criteria for early graduation in 3 years
- University of California, Berkeley** California, United States
Summer Session (GPA 3.4/4.0) Aug. 2015
- Person in Big Data – 2 credits (Grade A), Social Psychology – 3 credits (Grade B)

SKILLS

- Analytical Tools:** R (shiny, tidyverse, caret, e1071, leaps, dplyr, fpp2), Python (numpy, pandas, statsmodels), SAS (glm, anova, ttest, reg), MS Excel (vlookup, pivot table, Solver, Power Query), SQL, Salesforce
- Machine Learning:** GLM Regression (Linear, Logit, Multinomial), Decision Tree (Boosted Trees, Random Forest), Naïve Bayes Classifier, SVM (Support Vector Machines), Cluster Analysis (kMeans/Hierarchical Clustering), LDA (Linear Discriminant Analysis), KNN (K-nearest neighbors algorithm), Association Rules, Times Series Analysis, ARIMA models, A/B testing, PCA (Principle Component Analysis), CNN (Convolutional Neural Networks), Text Mining
- Database:** Relational/Dimensional Database, NoSQL (MongoDB), ETL, PostgreSQL, MySQL workbench
- Data Visualization:** Tableau, Power BI, R (ggplots, ggplot2), Python (matplotlib), SAS (sgplot)
- Languages:** English, Mandarin Chinese, Taiwanese

PROJECTS

- NBA Analytics with R** Jan. 2020 – May 2020
- Trained model to predict NBA player's salary by 5 critical factors to facilitate strategy for negotiating contract
 - Forecasted NBA player's career length to assist in customizing essential points of training
- Ebola Web Application with Shiny** Jan. 2020 – May 2020
- Created a web application to facilitate exploratory data analysis on Ebola data over time
 - Analyzed and visualized information about number of cases and deaths with interactive map
- SRG Data Analytics with SAS** Jan. 2020 – May 2020
- Applied machine learning algorithms and time series analysis to generate consulting report
 - Analyzed market trend and consumer behavior in sales data to identify pricing and marketing strategy
- 2019 Business Analytics Leadership Council Project Competition, 3rd place** Sept.2019 – Nov. 2019
- Developed machine learning algorithm to detect and locate tennis ball on tennis court
 - Analyzed tennis ball image data with Python and AWS server

EXPERIENCE

- ABclonal Technology** Woburn, Massachusetts
Marketing Data Analyst Intern May 2020 – Aug. 2020
- Analyze customer loyalty effect with 3000+ order and customer data by Excel
 - Organize weekly order, quote, and inquiry data to report marketing condition by Google Analytics
 - Update 2 reports and 1000+ opportunities on Salesforce
 - Reported weekly team projects on Jira
- Grandex International Corporation** Taipei, Taiwan
Quantitative Researcher Mar. 2018 – June 2019
- Forecasted business trends in market panel data by R to advise marketing department
 - Raised 20% of revenue of new products by adjusting regressors in pricing model in team
 - Computed KPI to monitor R&D and logistics cost & efficiency by Excel