

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