

MEEYOON CHOO

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EDUCATION

Master of Science in Applied Data Science

August 2018 - December 2019

Bay Path University, Longmeadow, MA

Master of Science in Biological Science

January 2010 - August 2012

The University of Memphis, Memphis, TN

Bachelor of Science in Biotechnology

May 2013 - May 2016

The University of Malaysia Sarawak, Sarawak, Malaysia

COURSE PROJECTS

Prediction of Heart Disease Using Machine Learning Techniques From Kaggle Challenge

The project goal's to train the data with variety machine learning techniques and investigate them in order to find the best model to predict the presence of heart disease. ML techniques used such as Logistic Regression, K-Nearest Neighbor (KNN), Principle Component Analysis (PCA), Random Forest, and Support Vector Machine (SVM). Compared and evaluated all the models with confusion matrices and accuracy rates. The data set is from <https://www.kaggle.com/ronitf/heart-disease-uci>.

Data Exploration and Visualization

Used PROC SQL in SAS to sort, modify, retrieve, and summarize the data set about Ebola virus disease outbreak in 10 affected countries in West Africa. Additionally, TIBCO Spotfire was used to analyse and build data visualization on a dashboard. The data set comes from The Humanitarian Data Exchange (HDX) (<https://data.humdata.org/dataset/ebola-cases-2014>).

Database Management System & Design

Designed movie theater system to help users to keep the records of all movies, maintain or update the records of movies, easy access to database containing information, and calculate the total amount of tickets sold. It also allowed the users to handle the work efficiently and gain customer satisfaction and help to increase reliability.

Data Forecasting of Time Series

Used various benchmark methods (Drift, Mean, Naive, Snaive Method) in R to forecast for sales of new-one family houses.

SKILLS

Statistical Modeling and Analysis, Multiple Linear and Logistic Regression, QDA, KNN, SVM, PCA, Decision Tree, Random Forests

Software, Languages & Tools: SAS, R, Python, SQL, TIBCO Spotfire, MS Office

RELATED WORK EXPERIENCE

The University of Memphis. Position: Research Assistant

January 2010 - August 2012

Collaborated with USGS and National Park Service (Canyonlands National Park), studied the spatial level of relationships between native grass species and geographical features that shape the patterns of genetic diversity across the landscape using statistical tools such as AMOVA, pairwise Fst, Principal Coordinate Analysis (PCA), Isolation by Distance (IBD), etc. Ultimately, developed guidelines and strategies for restoration of degraded grassland in Canyonlands National Parks.