Sunny (Sung Hee) Hong

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EDUCATION

University of California, Santa Barbara | Bachelor of Science, Statistics and Data Science | Graduation Date - September 2020

WORK EXPERIENCE

Undergraduate Research Assistant UCSB | **R, SQL, Tableau** | Santa Barbara, CA   February 2020 – Present

- Creating a Tableau dashboard to present and publicize the importance of the geographic health disparity
- Came up with innovative solutions to aid data readability for my team
- Manipulating data to calculate significant measurements to analyze geographic health disparities

Data Science Intern YMCA | **R, Python, Power BI, Tableau, MapBox** | Santa Barbara, CA   August 2019 – March 2019

- Streamlined communication with donors through interactive data visualization
- Problem solved through cross-referencing ideas, creating a customized map, and conducting unsupervised machine learning

PROJECTS

Income? : 1994 Census Data | **R, RMD**   March 2020 – June 2020

- Found significant predictor values like age and education mattered more than sex, native country, and race
- Built KNN model with only 7 qualitative data and produced a test error rate of 24.38%
- Oversaw Random Forest that produced a test error rate of 12.8%

Time Series : Climate Change | **R, RMD**   February 2020 – May 2020

- Executed a project in response to COVID-19 by researching about permafrost and predicting climate change in Delhi, India
- Built a model to predict monthly climate change in Delhi, India by interpreting ACF, PACF, AIC, and different diagnostic testing

Impact Map with YMCA | **R, Python, Tableau, Power BI**   June 2019 – March 2020

- Designed an interactive map with Power BI through data-driven decisions (NLP, Topic Modeling, Tableau)
- Web scraped data using urllib library and cleaned data using beautifulsoup library
- Worked on conducting an unsupervised topic model to generate topics through clustering words in a set of documents

"APP"solutely Successful (Project Leader) | **R, Python, Tableau**   September 2018 – April 2019

- Created and presented an impactful story to what defined a trendy Android App for UCSB Data Science Showcase.
- Built Multiple Regression model with MSE of 0.00023 and Random Forest 1.09e+15 (response variable: Installs)

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

Lead Marketing Officer Data Science Club (UCSB) | Santa Barbara, CA   June 2019 – June 2020

- Led the marketing team to rebrand Data Science Club's social presence and to facilitate weekly meetings
- Created social events, promoted club cultures and helped increased retention of new members by 100%

Women's Team Leader Epic Movement Club (UCSB) | Santa Barbara, CA   September 2017 – June 2020

- Led weekly women's meeting for an on-campus Christian ministry, CRU (Epic), for 2 years continuously

Wildwood Summer Mission | Wildwood, NJ   Summer 2018 & Summer 2017

- Led a sweater fundraiser for 6 other students and sold 128 sweaters raising an income of $2,560

SKILLS & INDUSTRY KNOWLEDGE

Skills: R, RMD, Github, Machine Learning (Regression, KNN, Decision Tree, Logistic Regression, Random Forest, LDA, QDA, PCA, Clustering, Kmeans), SQL, Tableau

Actively Learning : Python, Machine Learning (Topic Modeling, Bayesian Inference, Natural language processing), PowerBI