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 | Santa Barbara, CA   February 2020 – Present

- Manipulating data to calculate significant measurements to analyze health disparities between 'New', 'Old', and 'Other' Latinx Destination

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 customized map, and machine learning

PROJECTS

1994 Census Data | R, RMD   March 2020 – June 2020

- Found significant predictor values that indicated higher income in the US
- 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 related to permafrost and climate change in response to COVID-19
- Forecasted a model to predict monthly climate change in 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 a unsupervised topic model to generate topics through clustering words in a set of documents

"APP"solutely Successful (Trending Apps) | R, Python, Tableau | *Project Leader*   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

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

- Led a marketing team to rebrand Instagram and led 10+ general meetings
- Created social events, promoted club cultures and helped increased retention of new members by 100%

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

- Led 50+ women's meeting centered around empowering women through biblical truths

Wildwood Summer Mission | *Student Staff– Participant* | Wildwood, NJ   Summer 2018 & Summer 2017

- Led a sweater fundraiser for 6 other students and sold 128 sweaters raising an income of $2,560
- Worked together with Cru & Epic staff to supervised 32 students from different Epic campuses

SKILLS & INDUSTRY KNOWLEDGE

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

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