## Jong Wook. Choe

582 Grove Street, San Francisco, CA, 94102 | (530) 760-6057 1994wook@gmail.com | LinkedIn | Portfolio

## Education

## **Berkeley Data Analytics Boot Camp**

Oct. 2023

Advanced understanding in Excel, Python and R programming, JavaScript charting, SQL database, Tableau, machine learning.

## University of California Davis, Davis, USA

Jun. 2022

Bachelor of Science in Statistics; minor in Mathematics

#### Experience

## Summer Institute Fellow / California Policy Lab

Jun. 2022 - Aug. 2022

- Collaborated with a team to construct an ETL (extract, transform, load) data pipeline by merging multiple data frames of nationwide homelessness datasets.
- Analyzed and examined the trend of homelessness in California over the past twenty years and identified the factors contributing to the fluctuations in the homeless population.
- Managed data preparation process of a longitudinal dataset from Department of Housing and Urban Development dating back to 2015, with Continuum of Care as a primary variable consisting of 100,000+ rows.
- Developed and presented findings to a multidisciplinary team, providing important policy implications for addressing homelessness in California and other regions facing similar challenges.

## Public Data Intern / National Information Society Agency, NIA

Jun. 2021 - Jul. 2021

- Worked as a team to support the government's "Open Data Activation Policy" to promote the use of public data.
- Optimized the data maintenance tool by automating the data inspection process with Python and achieved higher data accuracy from 91% to 99%.
- Provided data maintenance support for the public data portal, <u>www.data.go.kr</u>

# Marketing Intern / Daily Beer, Inc

Jul. 2018 ~ Aug. 2018

- Created statistical report on new opening delivery business to provide insights on commercial analysis and market research.
- Organized and shaped social networking business campaign based on research.

#### Proiect

# **Consideration of Pipe Service Life**

Mar. 2023

- Discovered the main factors in which contributing breakages of the pipe and predicted potential damage.
- Cleaned and preprocessed actual pipes and past breakages information and merged datasets based on a native pipe ID as the primary key variables.
- Conducted data cleaning and preprocessing on client data and merged datasets based on a native pipe id as a primary key variable.
- Identified material and length as the factors in pipe failure through visualization and logistic regression.
- Provided insight into factor contributions to pipe breakages and prediction models for identifying pipe failures.

## MLB All-Star Game Prediction, UC Davis

Jun. 2022

- Forecasted the 2022 MLB All-Star Game player roster using 2021 season player stats and biometric data.
- Acquired data through web scraping utilizing the Python library, BeautifulSoup.
- Visualized player biometric data to identify relevant patterns and trends for All-Star Game selection.
- Identified key factors such as batting average and age and employed logistic regression and generated player list based on the players' statistics of the first half 2022 season.

### NASA Asteroid Classification, UC Davis

May. 2022

- Examined the large public dataset of asteroid characteristics and historical collisions from NASA's database to assess high-risk asteroids colliding with Earth.
- Oversampled the skewed dataset using the SMOTE algorithm to balance the data and achieve higher accuracy before model selection.
- Predicted high-risk asteroid collisions with greater accuracy using the decision tree algorithm compared to other employed models, enabling the development of more effective preventative strategies,

#### Certificate

- Google Analytic individual Qualification
- Completed Coursera's Google Data Analytics Specialization, Stanford Machine Learning, and SQL for Data Science certificate programs.