Jinwoo (Roy) Yoon

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EDUCATION

University of California, Berkeley   **Berkeley, California**
Bachelor of Arts, Data Science (Business/Industrial Analytics)   **Cumulative GPA : 3.30   May 2023**

- **Relevant Coursework**: Principles & Techniques of Data Science, Introduction to Machine Learning and Data Analytics, Statistical Inference, Data Engineering, Industrial and Commercial Data Systems, Data Mining, Data Structures

- **Leadership Award -** *Cal Alumni Association of UC Berkeley*   **August 2018**
In recognition for demonstrating innovative, initiative-driven leadership impacting their academic or community environments. In Fall 2018, Cal Alumni Association received around 9,000 applications and welcomed 665 recipients.

EXPERIENCES

Bank of America   Plano, Texas
iOS Developer Intern   **June 2022 - August 2022**

- Designed and implemented a demo version of "deals" mobile app page based on MVP pattern with navigation flow.
- Created service calls and model objects, fetched JSON-formatted data, and rendered the data into table view using Swift.
- Performed unit testing to validate the behavior of classes of mobile app and increased its coverage from 3.1% to 73%.

University of California, Berkeley   Remote
Undergraduate Student Researcher   **February 2021 - May 2021**

- Visualized the locations of 875 trademarks owned by Native American tribes on maps through Datawrapper.
- Cleaned datasets of given trademarks using Python and delivered weekly presentations to a research program mentor.

E-Three   Seoul, South Korea
Data Entry Assistant   **July 2020 - September 2020**

- Inputted 2,400 data of environmental impacts, by public facilities on neighboring people, into the startup's website.
- Prepared and maintained documentations, reports, databases, spreadsheets etc. to support the software development team.

PROJECTS

Bitcoin Exchange Rate Converter   **May 2022 - June 2022**

- Developed an iOS mobile application that shows Bitcoin exchange rate based on a selected currency using Swift.
- Used Coin API to extract JSON data of the Bitcoin exchange rate with a variety of currencies based on MVC pattern.

Visualization of Homeless People in the United States   **June 2021 - August 2021**

- Created a dashboard of the number of homeless people and compared them with years, states, and categories and integrated with Tableau using bubbles, map, side-by-side bar chart, and stacked bar chart.

Prediction on Scores by University of California College Basketball Players   **February 2021 - May 2021**

- Compared R-squared, mean squared error, and mean absolute error of machine learning regression models.
- Predicted points scored for the next season from the other stats with a random forest model which has the least error.
- Observed that the prediction based on the random forest model is fairly similar to actual scores scored for the next season.

Prediction on the Confirmed and Death COVID-19 cases   **March 2020 - May 2020**

- Performed exploratory data analysis, cleaned the given datasets, constructed the regression models using Python.
- Evaluated RMSE and used a log model, which has the least error, to forecast confirmed and death cases.
- Observed that the prediction based on the log model fits the actual data of the cases well.

SKILLS

Languages: Python, Java, SQL, NoSQL, Swift   **Databases** : PostgreSQL, MySQL, MongoDB
Libraries : Pandas, NumPy, SciPy, SciKit-learn, Matplotlib, Seaborn   **Data Visualization** : Tableau, Datawrapper, Power BI
Softwares : Jupyter Notebooks, Microsoft Excel, Word, Powerpoint, Outlook, Git, Intellij IDE, Xcode, Sourcetree