

## Xiaoyu Fu

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### SKILLS

**LANGUAGES:** Python (Pandas, NumPy, Scikit-Learn, PySpark), SQL

**DATA COLLECTION:** JSON, CSV, API, Web-Scraping

**DATA VISUALIZATION:** Matplotlib, Seaborn, Plotly, Tableau, Power BI

**MACHINE LEARNING:** Hypothesis Testing, A/B Testing, Linear Regression, Logistic Regression, Classification, kNN, Random Forest, Naive Bayes, K-Means Clustering

### PROFESSIONAL EXPERIENCE

#### Springboard-Data Scientist Trainee

December 2022 – September 2023

- 500+ hours of hands-on course material, with 1:1 industry expert mentor oversight.
- Completion of 3 in-depth portfolio projects.
- Mastering skills in Python, SQL, data analysis, data visualization, hypothesis testing, and machine learning.

#### BCG-Data Science & Analytics Virtual Experience

May 2020 – June 2020

- Clean the data: address missing values, duplicates, and data type conversions. Check out the data types and statistics and correct missing data.
- Build a churn model and predict the probability of customer churn by code script.
- Check the new model created and develop an executive summary to let customers get the right data and a good visual experience.

### PROJECTS

#### Capstone #1: Big Mountain Resort

March 2023

- Objective: Create a pricing model that can determine a price that is competitive to customers, and reflects the advantages of the facilities of the big mountain resort.
- Tools: Python, Pandas, Seaborn, NumPy, SciPy, XGBoost, LightGBM
- Outcomes: Big Mountain Resort's modeled price is \$92.96, and the actual price is \$81.00. Even with the expected mean absolute error of \$10.42, this suggests there is room for an increase.

#### Capstone #2: British Airways Passenger Booking

June 2023

- Create a trained model developed on the provided dataset to predict consumers' sales channels to book airline vacations.
- Based on speculation, the completion rate increases in direct proportion to the number of services and booking channels. From 10.68% for 0 services to 18.59% for 3 services.

### EDUCATION & CERTIFICATIONS

#### Springboard Data Science Certificate

September 2023

6-month intensive course in data science, machine learning, Python, and SQL with 1:1 industry mentor oversight.

#### San Jose State University

May 2023

#### *Bachelor of Science: Mathematics*

Introduction to Abstract Mathematics and Proofs, Vector Calculus, Modern Geometry and Transformations Abstract Algebra, Ord. Diff. Equations and Dynamical Systems, Applied Probability, and Statistics.