Xiaoyu Fu

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SUMMARY

Data science professional with background utilizing Python, SQL, and Tableau for the entire data analysis workflow including data wrangling, data storytelling, data visualization, exploratory data analysis, and applying machine learning models to big data.

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 Science 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.

Data Science & Analytics Virtual Experience in BCG   *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.
- Calculate variable distributions and Visualize specific parameters
- 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   *May 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.

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.

Adapted from [The Muse](#)