Jared Mlekush, MS

LinkedIn | Portfolio Site | GitHub | 925-234-3415 | jaredmlekush@gmail.com

Experience

Data Scientist **Extend Inc.** *Remote* **10/2021 - Present**

- Improved financial forecasting model accuracy by ~10% by aiding in the implementation of a time series forecast model in Python
- Automated reporting, reducing monthly time ***from hours to less than 20 minutes*** by using Snowflake and DBT
- Reduced merchant churn among high-value clients valued at over $25 million by utilizing machine learning techniques on sales data and alternative data sources to monitor performance and communicate findings back to the sales team

Data Scientist **UCSF** *Remote* **01/2021 - 09/2021**

- Designed 7 classification models for 7 different target variables in Python, obtaining over 85% accuracy on all models by using Logistic Regression and Random Forest Classifier
- Corresponded with doctors and proposed strategies on how to feature engineer columns, which led to building 2 additional models not originally proposed or considered

Data Analyst **Santa Clara County** *San Jose, CA* **03/2019 - 02/2020**

- Collected, analyzed, and assessed invoice data reports from 2 different information applications, Excel spreadsheets, and SAP accounting database to determine the accuracy and increase proficiency
- Led creation of Excel spreadsheet templates for future data collection from over 30 of the Santa Clara County mental health agencies/clients
- Trained and mentored colleagues in utilizing the Excel templates designed, by leading a lunch and learn, presenting to over 20 colleagues and analysts

Projects

Fruit Classification Using Deep Learning **(Portfolio Site)**

- Enhanced prediction accuracy by 20% when compared to baseline model by addressing over-fitting and implementing techniques such as Dropout & Image Augmentation
- Improved network architecture as evidenced by a 5% accuracy gain, leveraging Keras-Tuner
- Increased accuracy, using 30 fewer epochs than previous models, by using Transfer Learning with VGG16

Enhancing Targeting Accuracy Using ML **(Portfolio Site)**

- Built a robust model utilizing the Random Forest algorithm to predict, with 93.5% accuracy, customers likely to join the delivery club, enabling precise campaign targeting
- Achieved high performance across metrics, including classification accuracy (93.5%), precision (88.7%), recall (90.4%), and F1 score (89.5%) which provided valuable insights for client messaging and customer targeting

Fraud Modeling **(GitHub)**

- Achieved improvements in fraud detection, lifting models precision 48%, by optimizing model parameters and using ensemble methods
- Applied segmentation and clustering methods to detect fraud in unlabeled data, showcasing a strong understanding of unsupervised learning techniques and the practical applications in fraud detection

Education

Master of Science **USF** *San Francisco, CA, USA* **08/2020 - 08/2021**

- Major in Data Science

Bachelor of Science **CSU East Bay** *Hayward, CA, USA* **08/2017 - 12/2018**

- Major in Applied Mathematics

Skills

- Python | SQL | Pandas | NumPy | SciPy | Scikit-Learn | Snowflake | RedShift | PyTorch | Spark | DBT | Git | Tableau | AWS
- Deep Learning | Predictive Modeling | Computer Vision | Segmentation Analysis | Time Series Forecasting