# ADIT SHRIMAL

[ashrimal2@usfca.edu](mailto:ashrimal2@usfca.edu) | +1 (408) 203 2174 | San Francisco, CA, United States |[www.aditshrimal.com](http://www.aditshrimal.com) | [LinkedIn](http://www.linkedin.com/in/aditshrimal) | [Github](https://github.com/aditpshrimal)

**EDUCATION**

**M.S. in Data Science, University of San Francisco Jul 2022 - Present**

Relevant Coursework: Advanced Machine Learning, Distributed Data Systems, Data Structures & Algorithms, Relational Databases, Linear Regression, Experiments in Data Science, Data Acquisition

**B.E. in Computer Engineering, University of Mumbai Jul 2015 - May 2018**

Relevant Coursework: Data Structures & Algorithms, Computer Networks, Database Management Systems, Machine Learning

**PROFESSIONAL EXPERIENCE**

**Amazon Web Services Nov 2022 - Present**

*Machine Learning Intern*

* Building a sequential recommendation model (**GRU4Rec**) using the RecBole library.
* Utilizing **SHAP** and **KernelSHAP** to explain model predictions and identify features with the highest impact on recommendations, improving **model interpretability**.
* Currently working on implementing **Timeshap** to provide **time-based explanations** of recommendations, enabling users to better understand why specific items are being recommended at a given time.

**Fractal Analytics Nov 2021 - Jun 2022**

*Data Engineer*

* Collaborated with clients to understand their business requirements and designed and built data-driven solutions for their enterprise **data warehouse** using Google Cloud Platform products such as **Composer (Airflow)**, **Dataflow**, **BigQuery**, and **Cloud** **Storage**.
* Implemented an end-to-end **data** **encryption** strategy using **Google** **Tink** and **Google** **KMS** to enhance data security.

**Bewakoof Brands Pvt. Ltd. Feb 2020 - Nov 2021**

*Data Scientist*

* Developed and implemented a **product ranking** auto-sort algorithm from scratch, resulting in a 26% boost in click-through rate, and a 12% boost in add-to-cart rate.
* Developed **recommendation widgets**, increasing customer engagement and product-view rate by recommending tailored content on Product Detail and Home pages.
* Developed **personalized recommendations** for users by creating implicit ratings based on user behavior and using the **ALS** algorithm.
* Built a **data pipeline** from scratch using **Google Cloud Platform**, which outperformed the existing pipeline in terms of scalability, fault tolerance, and cost-efficiency (approximate 40% cost reduction).

**Reliance Jio Jul 2018 - Feb 2020**

*Data Engineer*

* Built a **streaming data pipeline** that handled millions of events at scale in real-time using **Kafka, Flink & Elasticsearch**, outperforming existing pipelines that observed a Kafka lag of more than two hours.
* Implemented a **data warehouse** using **HDFS, Spark, and Cassandra**, which was used by Product Managers and Leaders for systematic computational analysis of data.

**TECHNICAL SKILLS**

* Programming Languages: Python, Java
* Databases: MySQL, MongoDB, Elasticsearch
* Machine Learning: Linear Regression, Logistic Regression, Decision Trees, Random Forest, Gradient Boosting Machines (XGBoost), Collaborative Filtering (ALS), Feature Engineering, Model Evaluation, and Hyperparameter Tuning.

**AWARDS**

* Won ‘**Star Award 2022**’ for delivering outstanding solutions and solving complex technical customer challenges in a short period at **Fractal Analytics**
* Won **‘Employee of the month**’ for October ‘20 and ‘Employee of the Quarter’ for Q4 FY 20-21 at **Bewakoof Brands**.