

# ADIT SHRIMAL

[adit.p.shrimal@gmail.com](mailto:adit.p.shrimal@gmail.com) | +1 (408) 203 2174 | San Francisco, CA, USA | [www.aditshrimal.com](http://www.aditshrimal.com) | [LinkedIn](#) | [Github](#)

## EDUCATION

### M.S. in Data Science, University of San Francisco

Jul 2022 - Present

Relevant Coursework: Machine Learning, Linear Regression, A/B Testing, Statistical Modeling, Distributed Computing (Spark), Relational Databases (SQL), NoSQL, MLOps, Data Engineering (Kafka, Hadoop, HBase, Hive, Spark, ETL, Schema design and Dimensional Data Modeling), Deep Learning

### B.E. in Computer Engineering, University of Mumbai

Jul 2015 - May 2018

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

## PROFESSIONAL EXPERIENCE

### Amazon Web Services

Nov 2022 - Present

#### Machine Learning Intern

- Designed and implemented Recurrent Neural Networks (**RNNs**), specifically the **GRU4Rec** model, using **PyTorch** and the **ReChorus** library for advanced sequential recommendation tasks.
- Utilized **SHAP** and **KernelSHAP** to explain model predictions and identify features with the highest impact on recommendations, improving **model interpretability**.
- Integrated **TimeSHAP** to provide time-based explanations of recommendations, enabling users to understand better why specific items are being recommended at a given time.

### Fractal Analytics

Nov 2021 - Jun 2022

#### Data Engineer

- Designed **data-driven solutions** for client enterprise data warehouses using **GCP** (Google Cloud Platform) products (Airflow, Dataflow, BigQuery, Cloud Storage), reducing data processing time by **30%**.
- Implemented an end-to-end **data encryption strategy** with Google Tink and KMS, reducing security incidents by **80%** and ensuring compliance with data protection regulations.
- Won **Star Award 2022** for delivering outstanding solutions and solving complex technical challenges.

### Bewakoof Brands Pvt. Ltd.

Feb 2020 - Nov 2021

#### Data Scientist

- Constructed a cost-efficient **GCP** data pipeline (**40%** cost reduction) with improved scalability and fault tolerance.
- Devised a **product ranking** auto-sort algorithm, boosting CTR (click-through rate) by **26%** and A2C (add-to-cart rate) by **12%**.
- Optimized personalized recommendations employing **Alternating Least Squares** (used implicit ratings), resulting in a significant **14%** increase in RPTI (revenue-per-thousand impressions).
- Recognized as **Employee of the Month** for October '20 and **Employee of the Quarter** for Q4 FY 20-21.

### Reliance Jio

Jul 2018 - Feb 2020

#### Data Engineer

- Built a **streaming data pipeline** using Kafka, Flink & Elasticsearch, handling ~150k/sec events in real-time and outperforming existing pipelines with a lag of over two hours.
- Constructed a **data warehouse** with HDFS, Spark, and Cassandra, enabling systematic computational analysis for Product Managers and Leaders.
- Conducted a successful Proof of Concept (PoC) for deploying analytics pipelines on **Kubernetes** for two Jio media applications, demonstrating the feasibility and efficiency of containerized data processing.

## TECHNICAL SKILLS

- Programming Languages:** Python, Java, Bash
- Databases:** MySQL, MongoDB, Cassandra, Elasticsearch
- Big Data & Cloud:** Kafka, Spark, Flink, HDFS, Airflow, GCP (Pub/Sub, BigQuery, Dataflow, Key Management Service, Cloud Functions), AWS (Kinesis, S3, Lambda, Redshift, Glue, Athena)
- Machine Learning:** Linear Regression, Logistic Regression, Decision Trees, Random Forest, Kmeans, Gradient Boosting (XGBoost), SVD, PCA, Collaborative Filtering (ALS), Feature Engineering, and Model Evaluation, PyTorch
- MLOps:** MLFlow, Data Version Control (DVC), Git, CI/CD, Docker, Kubernetes, API design (Flask)
- Data Visualization:** Tools - Tableau, Metabase, Kibana, Libraries - Matplotlib, Seaborn