ADIT SHRIMAL

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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**.