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

- Built a sequential recommendation model using the RecBole library.
- Utilized **SHAP** and **KernelSHAP** to explain model predictions and identify features with the highest impact on recommendations, improving **model interpretability** and facilitating collaboration with non-technical stakeholders.
- 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 (GCP) products such as **Composer**, **Dataflow**, **BigQuery**, and Cloud **Storage**.
- Implemented an end-to-end data **encryption** strategy using **Google Tink** and **Google KMS** to enhance data security.
- Successfully **migrated** the client's existing **data pipeline** to a scalable and cost-efficient solution, resulting in improved performance and reduced costs. (Client: **L'Oreal**)

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

Data Scientist

- 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).
- Developed and implemented a **Product Ranking** auto-sort algorithm from scratch, resulting in a 25% boost in Revenue-Per-Thousand-Impressions, a 36% boost in Click-Through-Rate, and a 12% boost in Add-to-Cart-Rate.
- Developed product widgets 'Similar products', 'What's New', and 'Bestsellers' (currently live on Product Detail Page and Home page), which **recommends** products with similar content, new arrivals & bestsellers (last 30 days) which helped to **increase customer engagement** and boost Product-View-Rate per customer.
- Developed **personalized recommendations** for users by creating implicit ratings based on user behavior and using the **ALS** algorithm.

Reliance Jio   **Jul 2018 - Feb 2020**

Data Engineer

- Built a large scalable platform for **Jio Media Analytics** to capture, visualize & provide insights into User Acquisition, User Engagement, and Content Consumption patterns.
- 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

- Big Data Tools: Kafka, Flink, Spark, HDFS
- Google Cloud Platform: Pub/Sub, Cloud Dataflow, Cloud Storage, BigQuery, Cloud Functions, Firestore, Dataproc, Recommendations AI, Cloud Scheduler, Composer (Airflow)
- Programming Languages: Python, Java, SQL
- Databases: Elasticsearch, MySQL
- Machine Learning: Linear Regression, Logistic Regression, Decision trees, Random Forest, and Feature Engineering

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**.