

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

- Designed data-driven solutions for client enterprise data warehouses using GCP products (Composer, Dataflow, BigQuery, Cloud Storage), increasing data processing efficiency by 30% and meeting business requirements.
- 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.

Bewakoof Brands Pvt. Ltd.

Feb 2020 - Nov 2021

Data Scientist

- Developed a product ranking auto-sort algorithm, boosting click-through rate by 26% and add-to-cart rate by 12%.
- Created three recommendation widgets - "New Arrivals", "Bestsellers" & "You May Also Like", increasing customer engagement and product-view rate through tailored content.
- Implemented personalized recommendations using ALS and implicit user behavior ratings which boosted revenue-per-thousand-impressions by 14%
- Built a cost-efficient GCP data pipeline (40% cost reduction) with improved scalability and fault tolerance.
- Developed a system to send emails in bulk using Amazon SES with a 10x return-on-ads-spend (ROAS) leveraging RFM segmentation for user base selection.

Reliance Jio

Jul 2018 - Feb 2020

Data Engineer

- Constructed a streaming data pipeline using Kafka, Flink & Elasticsearch, handling millions of events in real-time and outperforming existing pipelines with a lag of over two hours.
- Implemented a data warehouse with HDFS, Spark, and Cassandra, enabling systematic computational analysis for Product Managers and Leaders.
- Automated raw data compression (80% reduction) in Hadoop Cluster using Airflow, Spark, and MySQL, ensuring storage capacity remained below 20% and optimizing external storage.

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.