S Sai Girish

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Summary

Data Engineer with 1.75 years of experience building ETL/ELT data pipelines using Airflow in GCP and implementing MLOps principles to deploy and maintain ML models in production. Helped the company generate over $26 million in ARR by building a generic offline ranker framework to rank multiple recommendation algorithms.

Experience

Lowe's

Data Engineer • Remote   09/2022 - Present

- Performed feature engineering and created around 150 features in the Vertex AI Feature Store belonging to Customer, Product, Search Query and Store entity types which are being used for multiple ML based recommendation and ranking algorithms.
- Created the process to monitor the important BigQuery table row counts and Vertex AI resources utility to get alerted on the excess usage.
- Built the generic LightGBM based offline ranker framework using Vertex AI pipelines to rank various recommendation algorithms, resulting into increased productivity by reducing the development time to 1 week and generating over $26 million in ARR.
- Created, deployed, scheduled and monitored 4 ML based recommendation and ranking models in production using Vertex AI tools (Feature Store, Pipelines, Matching Engine, Model Training, Endpoint, Batch Predictions)

Lowe's

Associate Data Engineer • Remote   06/2021 - 08/2022

- Extracted data pertinent to recommendations project goal from GCS (data lake), performed transformations and loaded into BigQuery (data warehouse).
- Performed cost optimizations by setting up a process to cleanup files in GCS buckets older than threshold and set up partition expiration for BigQuery tables.
- Created Jupyter notebook tutorials for Recommendations team to use Vertex AI tools (Feature Store, Model Training, Model Monitoring, Explainable AI) and built a YAML config based generic framework to manage features and ingest feature values into the feature store.

Skills

MLOps, Vertex AI, BigQuery SQL, Airflow, Python, Google Cloud Platform, ETL, Machine Learning, Git

Education

Indian Institute of Science

PG Level Advanced Certification Programme in Deep Learning • Online   02/2024

National Institute of Technology Karnataka

B.Tech in Computer Science • Surathkal, Karnataka   05/2021