Astra Telesoft™

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CASE STUDIES

Enterprise Data Platform

Background

No unified data platform causing

Unable to get insight of data

Point to Point data pipeline lead to data duplication

Legacy Technology causing operational overhead

Lack of data governance

Solution

Cloud based solution with unified ingestion layer.

Support for streaming & batch use cases.

Polyglot data storage with data lake.

DG including Data catalog

Technology : AWS Glue, lambda, SNS, SQS, RDS,KDA, S3, Snowflake, Datahub

Outcome

Low maintenance overhead

Unified ingestion mechanism which reduces data sources onboarding time

Centralized data warehouse with consumer interfaces which reduces consumer onboarding time

Centralized data catalog

BSS Fraud Losses

Background

BSS system need to find unusual pattern inside data coming coming from different system/event. Due different system data look like orphan until merge over single platform.

Solution

Move downstream data from different-2 system over single unified platform.

ML Model find unusual pattern inside to predict anomaly inside BSS system.

Based on incident system have workflow for corrective measure.

Technology : Cloudera, Hive ,Sqoop, Pig ,Apache Spark and Tableau

Outcome

BSS vendor have near real time dashboard with all anomaly inside system.

Complete inside of corrective measure take by system over detected anomaly.

Self Organizing Networks

Background

Telecom engineer need under stands low performing cells. Based on information come from performance manage system or health data coming from cells.

Solution

ML based model identify low performing cell inside customer network topology and route network toward nearest available health cells.

Technology : Cloudera,Apache Kafka, Apache Spark, Apache Hive, and neo4j.

Outcome

Provide real time update for faulty cell inside current topology. Which help operator execute predictive maintenance.

Microservices Platform

Background

One of leading banking solution provider who issues and manage prepaid cards wanted to develop Unified centralized core microservices platform which can be integrated with various domain services & third-party services

Solution

Design & Developed unified microservices platform with core platform service

Tech : Spring Boot, Keycloak, Kong Gateway, AWS EKS, docker , ECR, Lamda, MongoDB , RDS, ELK,

Outcome

Development of new services is faster & go to market time is very less.

Easy integration with third-party services

Centralized core services such user management , iam, configuration , subscriptions make easy & reusable

Machine Learning Based Billing Anomaly Detection

Background

Telecom operator having lot of issues in billing system causing big revenue loss as well as customer churn due to dis-satisfaction

Solution

Machine Learning based , Big data & Analytical solution to predict billing issue before generation of bills.

Technology : AWS EMR (Hadoop, Hive , Java , Spark SQL, Spark ML) Sagemaker, Elasticsearch and Power BI.

Outcome

Helped operator to save million dollar revenue

Helped to reduce customer complaint & customer churn