Microsoft

Azure Synapse Claim Fraud Analytics Solution

Azure Synapse Analytics

By
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UB TECHNOLOGY INNOVATIONS INC

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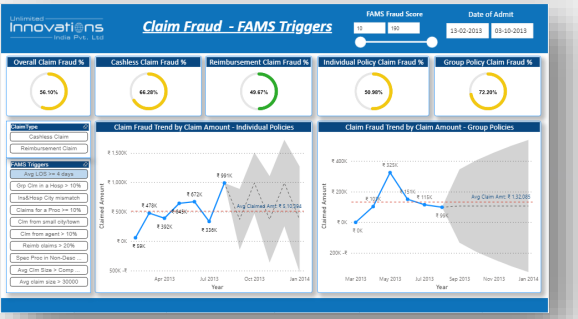
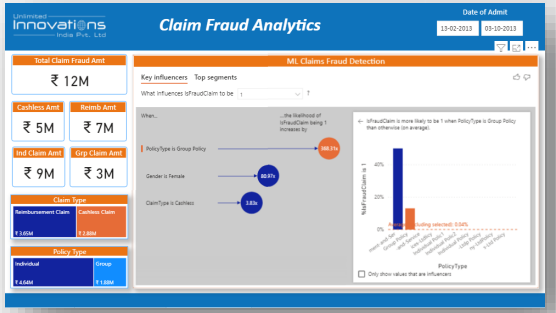
Industry:
Health Insurance

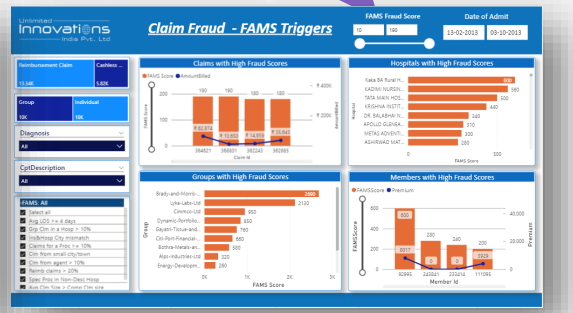
Solution:
Claim Fraud Analytics using Azure Synapse Analytics

Important Highlight:
Industry Standard Rules with ML model and Power BI in Azure Synapse to find Fraud claims

End-user experience







Solutions Used

Azure Data Lake Storage Gen2

Azure ML Studio

Parquet File

Purview

Power BI

Power Automate

Power Apps

Summary: We would use the Health Insurance claims data from the Insurance companies and third-party administrators to achieve the following:

- Identifying the suspected Fraudulent claims by using descriptive and predictive modelling with industry standard business rules
- Reduce the fraud analysis time and effort and claim processing time.
- High Business Value: On finding a typical pattern of fraud claims could avoid a huge claim expense and increase business value for current and future claims.
- Reduce Premium for customers and Increase Insurance service by providing better products and plans

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Azure Synapse Claim Fraud Analytics Solution| Use-case Briefing

BUSINESS USE CASE

- Identifying Claim Fraud
- 30% Claims – Fraud
- Time taken 6 to 7 Months
- Claim Fraud Examples
  - Increased LOS for normal procedures
  - Group claims being done in the same hospital for a particular treatment

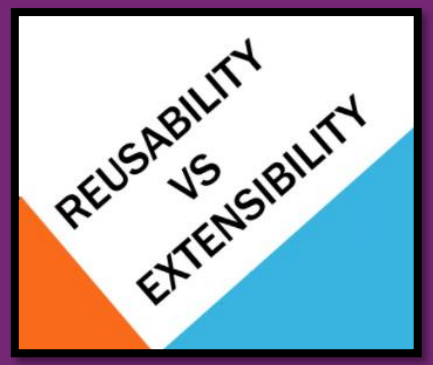
BUSINESS SOLUTION THOUGHT PROCESS

- Identifying suspected Fraudulent Claims made easy
- Identify the pattern of fraudulent claim and stop future occurrences of that fraud.
- Reduce Identification time to minutes and days
- Fraud Detection Solution
  - FAMS(Fraud and Abuse Management System) Triggers – Fraud and Abuse Management Industry standard rules
  - Fraud Identification Using Auto ML

Azure Synapse Claim Fraud Analytics Solution- Solution Benefits

High Business Value : Able to achieve huge monetary benefits on identifying fraud claims.

Market Readiness : FAMS Triggers are Industry Business Rules

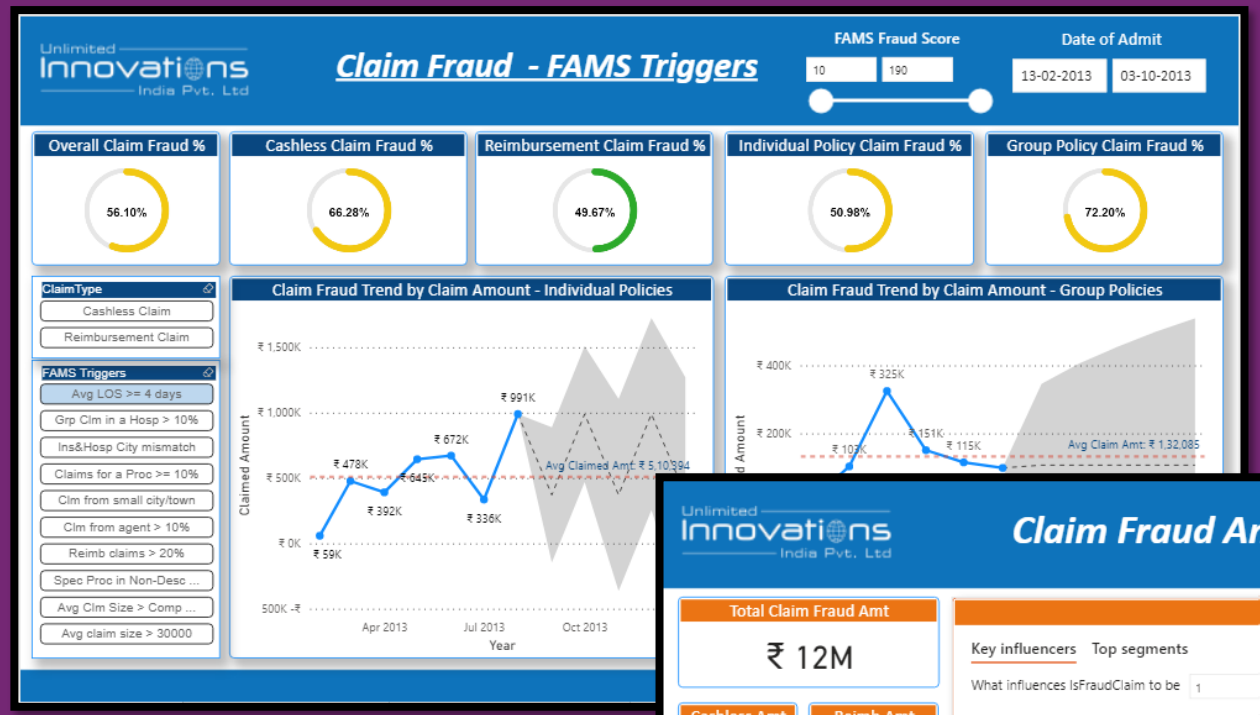
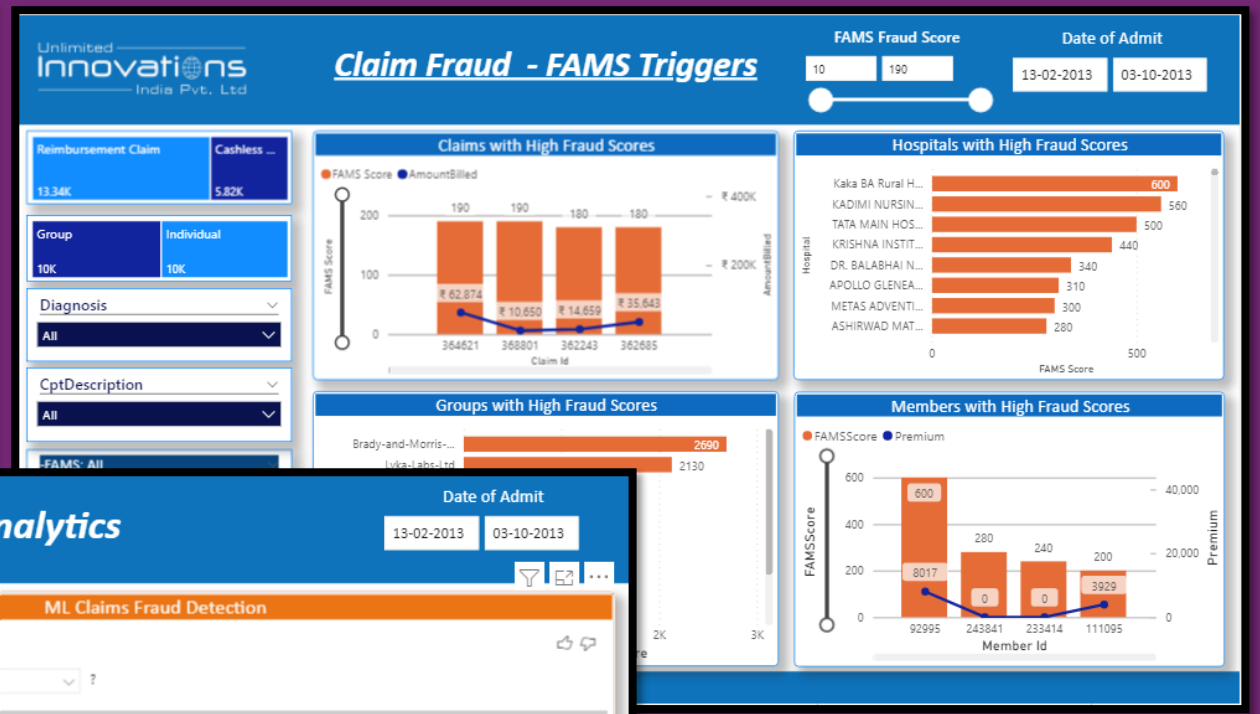
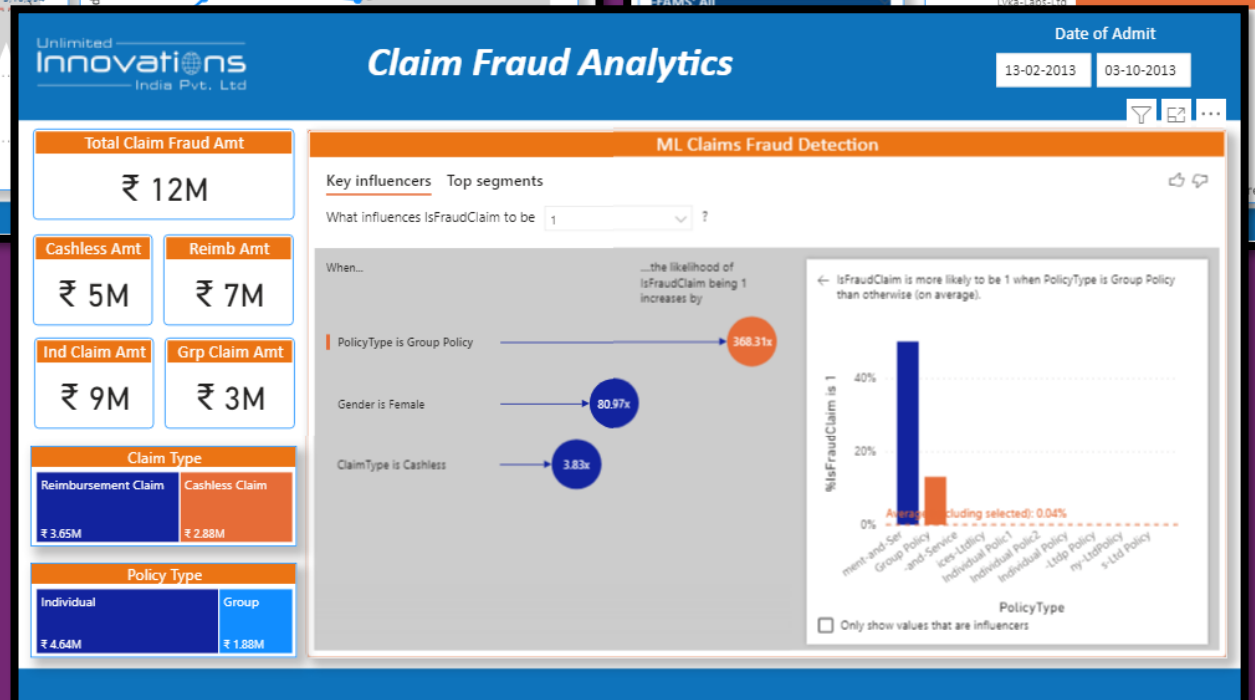


Reusability : Any Claims data can be added pushed into framework and configured.

Extensibility: It is build as a framework, so new rules can be added in this design

Reduce Time : Identifying time reduced to minutes and days

Reduce Premium : Increases Enrolments

Increased Customer Service and Benefit Policy Holder

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