Azure Synapse Claim Fraud Analytics Solution

By
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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.

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

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

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

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

Reduce Premium: Increases Enrolments

Market Readiness: FAMS Triggers are Industry Business Rules

Reduce Time: Identifying time reduced to minutes and days

Increased Customer Service and Benefit Policy Holder
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