

Model Risk Management Document

Introduction

The Confidence Score is a feature in our global identity verification solutions: Identity Check API and Pro Insight manual review tool. It provides a comprehensive assessment of the identity behind a transaction by leveraging the millions of transactional patterns across our network and Identity Check's 70+ data signals to deliver a single, actionable score on a 0-500 range, with a higher number indicating a riskier transaction and a lower number indicating a less risky transaction.

Model Details

Features

There are two types of features used to build the model:

- Attributes from the Identity Check API Response - <https://ekata.com/developer/documentation/api-overview/#tag/Identity-Check-API>
- Velocity checks or network attributes - historical patterns of transactions

Outcome Data

We train our models using labelled data that we get from our customers.

Model Type

We use tree based models that include random forests and gradient boosted trees.

Model Construction

We periodically update our models using the process below:

1. Data collection and preparation
2. New model is built (trained)
3. Variety of success criteria are measured
4. Success criteria are reviewed and step 2-4 are repeated till we are comfortable with the results

Success criteria includes:

1. AUCs (area under the curve)
2. Score distributions
3. Reason code performance

Ongoing Model Performance

We instrument and measure the items below on an ongoing basis:

- Score distributions
- We have monitoring across all our customers
- Customers can access their score distributions via our product
- Model response time