

## **Anomaly Detection**

In the Digital age it has become imperative to identify anomalies in business operations. From payment frauds to money laundering and cyber security, quick and accurate anomaly detection is necessary in order to conduct business and protect clients from potentially devastating losses. As per India's Reserve Bank of India's annual report 2019-20, the amount involved in banking frauds grew 2.5 times to INR 1.85 lakh crore in 2019-20 & the number of frauds rose 28% in 2019-20 compared to 2018-19.

TransOrg offers solutions to identify anomalies at transaction, account / customer and merchant levels using various complex modelling algorithms. Similar techniques have been deployed to detect near real time cyber attacks as well. Key business questions **Advantages** How to identify Mitigate reputational phishing attacks? risk for a financial institution by flagging anomalies at How to identify How to identify transaction level genuine loan Improve and maintain manipulations and possible and insurance asset level portfolio claims? frauds in quality documents? Improve customer confidence by How to discover credit card preventing phishing transaction attacks anomalies? Reduce losses

## Our end-to-end approach Identify key business objectives and constraints Gather, cleanse and merge data into analytical dataset **Business** objective Monitor model Perform statistical tests performance and analysis Track anomalies and Classify problem into Exploratory data analysis Monitor and monetize quantify mitigated risks supervised/unsupervised learning Methodology Detect and analyze anomalous patterns Build end-to-end data pipelines Engineer features Near real time model integration Check feature significance integration in big data infrastructure Create and compare multiple feedback Automated improvements in machine / deep learning models Calculate "anomaly score" output based on self - learning

## **About TransOrg Analytics**

TransOrg Analytics is a Big Data and machine learning solutions and services company transforming businesses. Our solutions and products encompass advanced analytics, data engineering, data science, machine learning, artificial intelligence and smart data visualization. We come with tenured experience of 11+ years across North America, Middle East, APAC and India and have delivered millions of dollars in incremental top line revenues via 300+ projects of varying complexities for 60+ clients including Fortune 500 companies.

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