

Enterprise Overview

A major Government Intelligence Organization (GIO*) needed to find more cost effective and accurate methods to extract, prepare, model, analyze, and disseminate relevant information that is gathered from open, sources (Open Source Intelligence, OSINT). Current methods were not able to operate effectively on unstructured data and required significant constraints on the amounts and types of data that could be analyzed and made available for dissemination throughout the Federal Government Information Infrastructure.

Operational and Mission Challenge

OSINT is a highly diverse form of intelligence collection and analysis. Most OSINT collectors and analysts need to collect information discreetly and without bias to avoid tainting their work products. In OSINT, the chief difficulty is in identifying relevant, reliable sources and data from the vast amount of publicly available information, consistently replicating these results, and sharing the methods of analysis. GIO wanted to achieve the following results in evaluating potential platforms and tools:

- Filter relevant data for more thorough and rapid analysis
- Perform entity discovery, identification and resolution
- Reduce bias in data models
- Decrease cost to produce accurate relevant information
- Replicate successful data analysis and share techniques across the GIO for rapid mission achievement
- Support multiple languages

Solution

The GIO tasked uReveal to investigate and identify “interesting or relevant” data in six terabytes (6TB) of news feed data from the country of India without any additional direction or guidance. The data was provided to uReveal through an on-line file share application. Upon initial review, it included about 4 TB of processed meta-data, and an additional two terabytes (2TB) of raw data. uReveal had no specific knowledge or understanding of the data it was provided and could not rely on additional subject matter expertise (SME) to perform the analysis; the data preparation, modeling, analysis, correlation, and reporting were all performed using the automated functionality of the uReveal platform. Within 24 hours of the request, uReveal produced the following insights and actionable information directly from the provided data:

- 141 leaked Department of State sensitive cables discovered by the unbiased learning functionality
- Linkages between known terror groups and a legislator: this legislator was using political cover to publicly rebuke terrorism in general but privately inciting terroristic activities for his political gain.
 - uReveal Identified 30% more information in this area than was already known by the GIO.

* The actual name of the Government Intelligence Organization (GIO) services provider group has been withheld because of Mutual Non-Disclosure Agreements (MDNA) between the parties.

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- Terror funding and financing correlated: Identified in depth reports on financing terrorist activities.
- Entity discovery and identification (terrorist alias in data) missed previously in baseline analysis by the GIO

Results

uReveal was able to demonstrate complete success in each operational requirement listed through its unbiased learning and contextual correlation deep cognition processing. It was more accurate than the control data from the GIO. uReveal's augmented analytics platform streamlined the GIO's expensive data modeling, extraction, loading and SQL query processes and delivered savings amounting to 73% of capital expenditures and 76% of operating expenses. More importantly for the GIO and supporting OSINT activities, uReveal reduced the time to actionable insights by more than 90%, having a direct impact on successful mission achievement.

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