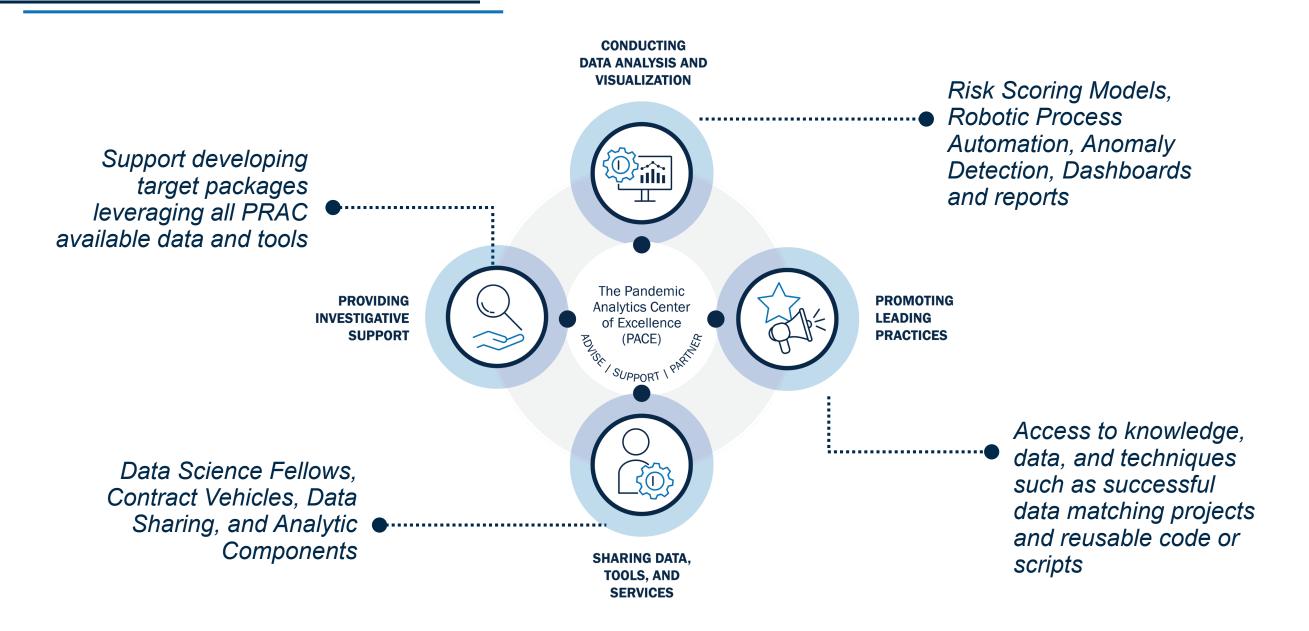


24th Biennial Virtual Forum of Government Auditors Pandemic Analytics Center of Excellence

Pandemic Response Accountability Committee (PRAC) May 17, 2022

Pandemic Analytics Center of Excellence (PACE)



Examples of Current Projects



Develop a risk scoring model to help an OIG address the dramatic increase in fraud complaints submitted to the complaint tip line in relation to pandemic spending Develop a risk scoring model to help an OIG better identify high risk Prime and subrecipients for oversight activity Utilize business logic and structured inputs to automate tasks associated with the Quarterly Report Reviews for a COVID-19 program Quickly build out networks using AI to reveal actionable insights on targets, groups and topic using social media and dark web data

Analytic Use Case - Hotline Risk Analytics

Hotline Risk Analytics Project Overview

Project Background

Built a risk scoring model for SBA OIG given the explosion (800 to 190k) of complaints related to SBA programs, as it was no longer feasible to manually review and triage complaints.

Business Challenges

- Manual review was impractical
- Most valuable data existed in narrative form
- Structured data fields are missing or incomplete
- Data is coming in from multiple channels

Innovation in Action



Solution Overview

Data Understanding and Preparation	Analytic Modeling	Insights Generation
<complex-block></complex-block>		ic To help answer business questions

Hotline Analytics Dashboard Demo

Collaborate to Elevate

Streamline OIG's intake processes	 Reduced manual review in vetting of complaints Accelerated the overall investigative process
Innovate hotline efficiencies across the IG community	 Replicate the hotline analytics process through joint projects with other OIG partners Integrate with case management system to further streamline the complaint review workflow
Share best practices & lessons learned	 Apply appropriate NLP techniques to help elevate hotline complaint analytics capabilities at other OIGs, such as risk concept extraction and ensemble entity resolution Utilize self-identified fraud risk categories to develop machine learning models to glean additional insights from unstructured data
Establish code- sharing procedure	 Code sharing with other OIGs can help accelerate the hotline complaint analysis: Entity resolution code Utility functions such as address standardization, entity name standardization, string similarity comparison, and string tokenization and resorting

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