Successfuly developed an interactive Tableau dashboard that empowers the USCG Sector New York to explore the MISLE incident data using all our research methods and extract valuable geographic and temporal insights that aid in risk assessment, resource allocation, and outreach initiative planning.

**Home Page - Geographic Analysis**

An interactive map generated through Geographical Information System (GIS) clustering analysis to identify and visualize high incident density areas. The map dynamically responds to user input by clicking on different map locations. Clicking on a colored cluster zooms in on the specific N/MLM location and displays analysis about the number of incidents and the percentage breakdown of incident types and incident outcomes in the area. This information can be filtered by year, month, and day of the week.

**Seasonality Analysis**

Displays and visualizes the trends and seasonality present throughout the MISLE incident data on a per month basis and by different incident types. The page also features several important Key Performance Indicators (KPIs) that provide more in-depth information about each of the seasons to the user.

**COVID-19 Analysis**

Displays and visualizes the MISLE data based on the days of the week and gives insight into incident trends by both volume and incident types on a weekly basis. The KPIs also highlight the incident types that experience the most significant increase on weekdays and weekends.

**CONCLUSION**

Working closely with the USCG Sector New York to transition the dashboard prototype, so they can integrate its risk management and predictive capabilities into day-to-day operations and explore the possibility of expanding its application to other Coast Guard sectors.

**OUTCOMES / RESULTS**

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