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ProM-Ex 🍀

Welcome!

Upload a CSV file, and I will detect and explain their anomalies.

Dataset Preview:

	org:group	resource country	organization country	org:resource	organization involved	org:role	con
0	V30	France	fr	Frederic	Org line A2	A2_4	Acc
1	V30	France	fr	Frederic	Org line A2	A2_4	Acc
2	V5 3rd	France	fr	Frederic	Org line A2	A2_5	Que
3	V5 3rd	France	fr	Anne Claire	Org line A2	A2_5	Acc
4	V30	France	fr	Anne Claire	Org line A2	A2_4	Que

Select Case ID Column

org:group

Select Activity Column

concept:name

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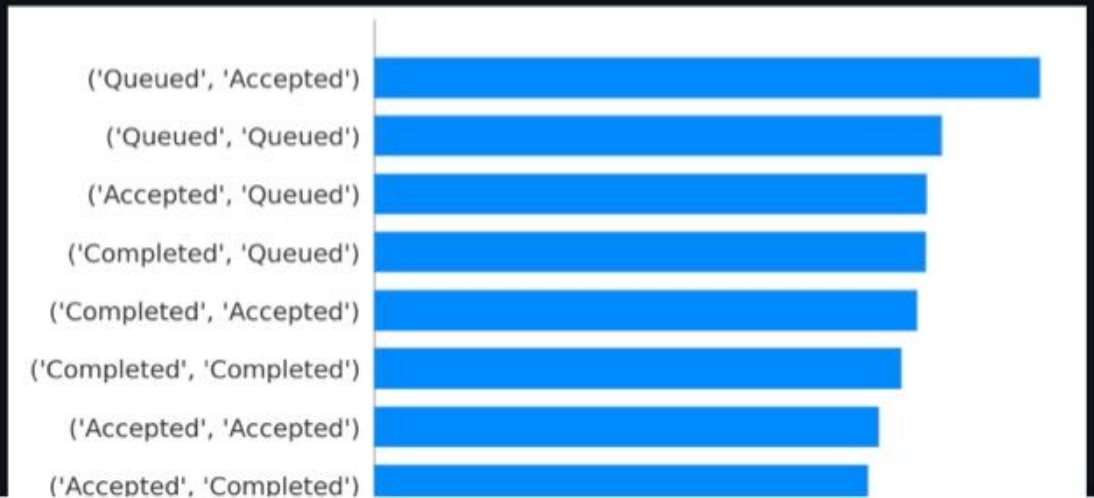
Detected Anomalies:

org:group	concept:name
D5	Accepted Accepted Queued Accepted Accepted Accepted Queued
G230 2nd	Queued Accepted Accepted Accepted Accepted Accepted Queued
G76	Accepted Accepted Accepted Accepted Accepted Queued Accepted
G96	Accepted Accepted Accepted Accepted Accepted Accepted Accepte
G97	Queued Accepted Queued Accepted Accepted Accepted Accepted
S42	Accepted Accepted Accepted Completed Completed Accepted Acc
S56	Queued Accepted Accepted Queued Accepted Queued Accepted

SHAP Analysis

Feature Importance Plot



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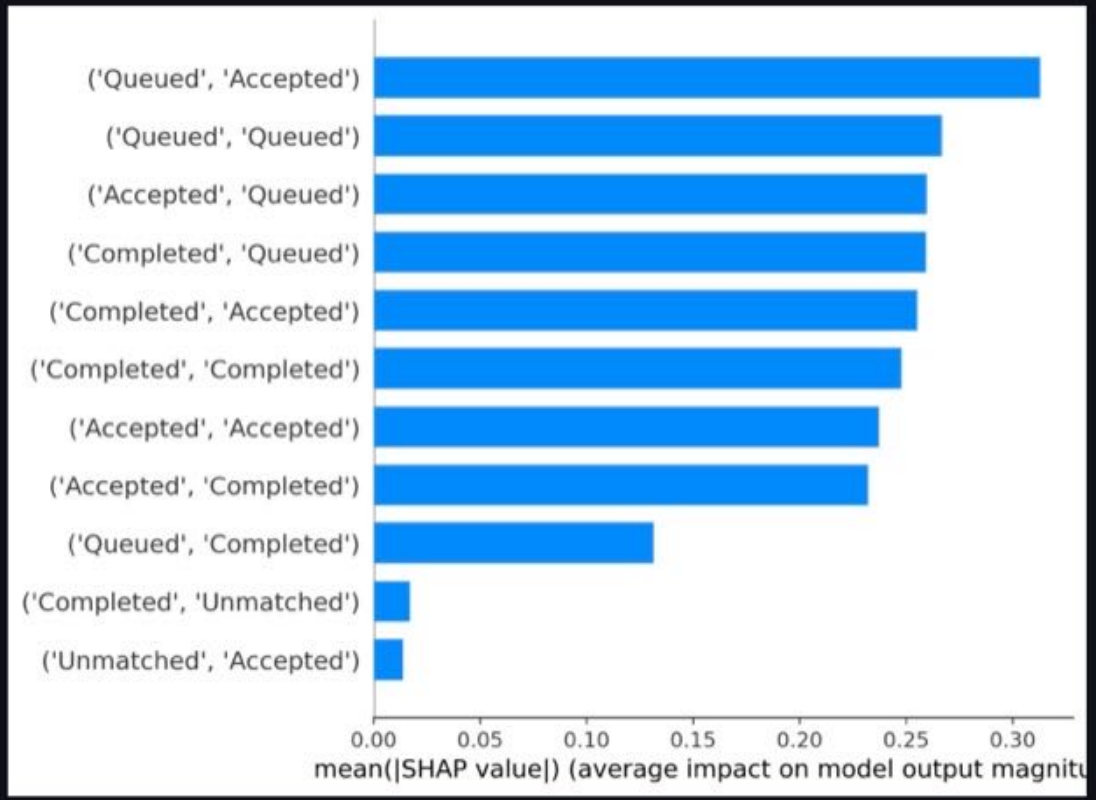

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LLM-based SHAP Explanation

1. Possible reasons for these features' importance in anomaly detection:

- **Queued** and **Accepted** are two of the most common states in a process. A high importance score for the n-gram ('Queued', 'Accepted') suggests that transitions between these states are particularly important for anomaly detection. This could be because these transitions are often associated with delays or other problems.
- The n-gram ('Queued', 'Queued') indicates that a case remains in the Queued state for an extended period. This could be a sign of a bottleneck or other problem in the process.
- The n-gram ('Accepted', 'Queued') suggests that a case is accepted but then immediately queued again. This could be a sign of a problem with the acceptance process or with the subsequent steps in the process.
- The n-gram ('Completed', 'Queued') indicates that a case is completed but then queued again. This could be a sign of a problem with the completion process or with the subsequent steps in the process.
- The n-gram ('Completed', 'Accepted') suggests that a case is completed and then accepted. This could be a sign of a problem with the completion process or with the subsequent steps in the process.

2. Impact of these features on the overall anomaly detection process:

The importance of these features suggests that they are likely to be useful for anomaly detection. By focusing on these features, anomaly detection algorithms can identify cases that are likely to be problematic. This can help to improve the overall accuracy and effectiveness of the anomaly detection process.

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- The n-gram ('Queued', 'Queued') indicates that a case remains in the Queued state for an extended period. This could be a sign of a bottleneck or other problem in the process.
- The n-gram ('Accepted', 'Queued') suggests that a case is accepted but then immediately queued again. This could be a sign of a problem with the acceptance process or with the subsequent steps in the process.
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- The n-gram ('Completed', 'Accepted') suggests that a case is completed and then accepted. This could be a sign of a problem with the completion process or with the subsequent steps in the process.

2. Impact of these features on the overall anomaly detection process:

The importance of these features suggests that they are likely to be useful for anomaly detection. By focusing on these features, anomaly detection algorithms can identify cases that are likely to be problematic. This can help to improve the overall accuracy and effectiveness of the anomaly detection process.

3. Recommendations for handling or further analyzing these features in future analyses:

- **Consider using these features as input to a machine learning model.** This could help to improve the accuracy and effectiveness of the anomaly detection process.
- **Investigate the cases that are associated with these features.** This could help to identify the root causes of the problems that are causing the anomalies.
- **Monitor these features over time.** This could help to identify trends that could indicate potential problems in the process.