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ProM-Ex

Welcome!



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

Dataset Preview:

	question	dateFinished	dueDate	action_code	activityNameEN
0	EMPTY	2014-04-14 00:00:00	2014-04-17 09:30:39+00:00	01_HOOFD_010	register submission date req
1	False	2014-04-14 00:00:00	None	01_HOOFD_011	OLO messaging active
2	True	2014-04-14 00:00:00	None	01_HOOFD_020	send confirmation receipt
3	False	2014-04-14 00:00:00	2014-04-21 09:37:17+00:00	02_DRZ_010	forward to the competent au
4	True	2014-04-14 00:00:00	None	04_BPT_005	regular procedure without M

Select Case ID Column

concept:name



Select Activity Column

activityNameEN



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Deploy



1	False	2014-04-14 00:00:00	None	01_HOOFD_011	OLO messaging active
2	True	2014-04-14 00:00:00	None	01_HOOFD_020	send confirmation receipt
3	False	2014-04-14 00:00:00	2014-04-21 09:37:17+00:00	02_DRZ_010	forward to the competent au
4	True	2014-04-14 00:00:00	None	04_BPT_005	regular procedure without M

Select Case ID Column

concept:name



Select Activity Column

activityNameEN



Detected Anomalies:

concept:name	activityNameEN
01_HOOFD_020	send confirmation receipt send confirmation receipt send confirmation receipt
01_HOOFD_050	inform BAG administrator applicant is stakeholder applicant is stakeholder
06_VD_030_2	decision date prior to decision decision date prior to decision decision date prior to decision
06_VD_030_3	enter date decision procedure term extension enter date decision procedure term extension

SHAP Analysis

Feature Importance Plot

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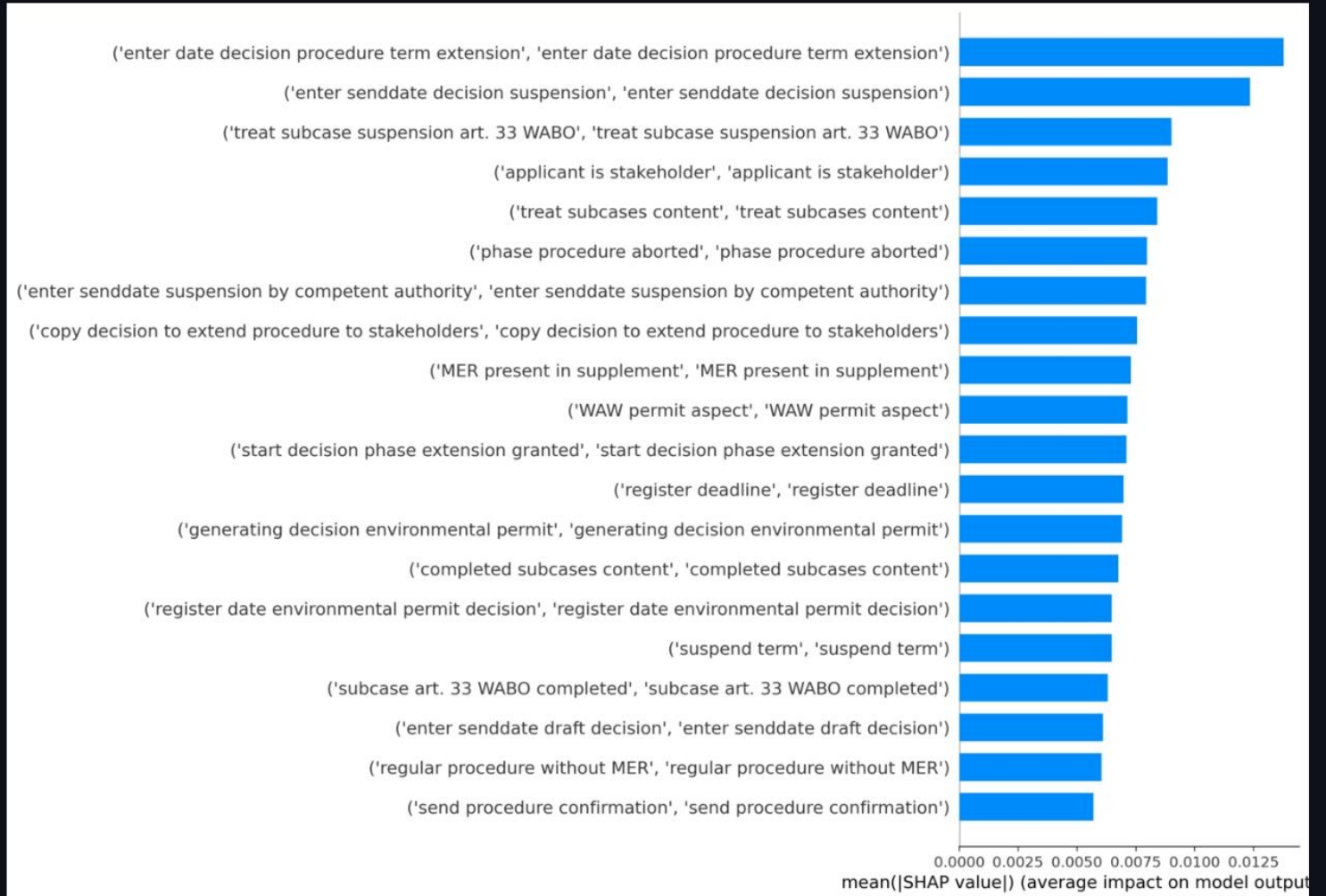
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LLM-based SHAP Explanation

Feature Analysis:

1. ('enter date decision procedure term extension', 'enter date decision procedure term extension')

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LLM-based SHAP Explanation

Feature Analysis:

1. ('enter date decision procedure term extension', 'enter date decision procedure term extension')

- **Type of Anomaly:** Unexpected event order
- **Significance:** This feature indicates that the "enter date decision procedure term extension" event is repeated consecutively, which is not the expected sequence in the process flow.
- **Impact on Process Flow:** This anomaly can lead to delays in the process as the repeated event may cause unnecessary processing or confusion.

2. ('enter senddate decision suspension', 'enter senddate decision suspension')

- **Type of Anomaly:** Redundant events
- **Significance:** This feature suggests that the "enter senddate decision suspension" event is repeated consecutively, which is not a valid sequence in the process.
- **Impact on Process Flow:** Redundant events can introduce errors and inefficiencies into the process, potentially leading to incorrect outcomes or wasted effort.

3. ('treat subcase suspension art. 33 WABO', 'treat subcase suspension art. 33 WABO')

- **Type of Anomaly:** Looping patterns
- **Significance:** This feature indicates that the "treat subcase suspension art. 33 WABO" event is repeated consecutively, suggesting a potential loop in the process flow.
- **Impact on Process Flow:** Looping patterns can cause infinite loops or deadlocks, leading to process disruptions and delays.

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- **Impact on Process Flow:** Redundant events can introduce errors and inefficiencies into the process, potentially leading to incorrect outcomes or wasted effort.

3. ('treat subcase suspension art. 33 WABO', 'treat subcase suspension art. 33 WABO')

- **Type of Anomaly:** Looping patterns
- **Significance:** This feature indicates that the "treat subcase suspension art. 33 WABO" event is repeated consecutively, suggesting a potential loop in the process flow.
- **Impact on Process Flow:** Looping patterns can cause infinite loops or deadlocks, leading to process disruptions and delays.

4. ('applicant is stakeholder', 'applicant is stakeholder')

- **Type of Anomaly:** Missing events
- **Significance:** This feature suggests that the "applicant is stakeholder" event is missing between the two consecutive events, indicating a deviation from the expected process flow.
- **Impact on Process Flow:** Missing events can lead to incomplete or incorrect processing, potentially affecting the accuracy and efficiency of the process.

5. ('treat subcases content', 'treat subcases content')

- **Type of Anomaly:** Unexpected event order
- **Significance:** This feature indicates that the "treat subcases content" event is repeated consecutively, which is not the expected sequence in the process flow.
- **Impact on Process Flow:** This anomaly can lead to delays in the process as the repeated event may cause unnecessary processing or confusion.