### **MistralNemo**

Overall, while the model performs well in recognizing structured elements such as locations and major entities, it lacks depth in relationship extraction, plot sequencing, and narrative progression. It effectively captures key aspects of a story but struggles to provide a cohesive and fully contextualized representation of events. These limitations suggest that while the system is functional, it requires further refinement to improve accuracy and interpretability.

Key areas for enhancement include better differentiation of entity types in Named entity recongnition, improved contextual clarity in relationship extraction, more structured sequencing in plot discovery, and a more refined approach to tracking story evolution. Addressing these weaknesses would significantly improve the system’s ability to analyze and summarize news articles effectively. With continued development, it could become a more reliable tool for extracting meaningful insights from large volumes of text.

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### **Named Entity Recognition**

Model demonstrates strong capabilities in identifying geographic locations, successfully recognizing full place names across various articles. However, this strength does not extend to actors, as the system frequently misclassifies key entities or fails to detect them altogether. This misclassification can lead to an incomplete understanding of the narrative, as important organizations such as NATO, the EU, and local institutions like border guards or police are sometimes omitted or incorrectly labeled as locations.

Additionally, the system struggles with recognizing complex timeline expressions, particularly those that describe time in relative terms. While exact dates are usually captured correctly, phrases like *"several months"* or *"a few days later"* are often overlooked. This limitation weakens the system’s ability to accurately establish timelines, which is crucial for understanding the progression of events.

Moreover, the extracted entities often lack sufficient contextual information, making them difficult to interpret without the original text. While the system successfully captures many locations and some actors, it does not always provide a comprehensive picture of all key participants in a story.

### **Relationship Extraction**

The Relationship Extraction process partially succeeds in identifying links between entities but often fails to present them in a clear and structured manner. While the system correctly detects some relationships, such as those between actors and events, it does not always explain these relationships in a way that conveys their full meaning. This lack of clarity can lead to misinterpretations of how entities interact, ultimately affecting the understanding of the overall narrative.

One of the main issues is that the relationships extracted by model are often incomplete. Some connections that are critical for a full understanding of the story are entirely missing, reducing the coherence of the extracted information. Even when relationships are identified, they are frequently presented without sufficient contextual background, making it difficult to discern the precise nature of these interactions. This issue is particularly noticeable when analyzing news articles that contain complex interactions between multiple actors.

To improve, the system should enhance its ability to extract a broader range of relationships while ensuring that they are properly contextualized. A more sophisticated approach to relationship extraction would involve not only identifying connections between entities but also specifying the type of interaction, such as alliances, conflicts, or causal links. By doing so, model could provide a more complete and interpretable representation of how different actors and events are interrelated.

### **Plot Discovery**

The system performs relatively well in identifying the main events of a story, often extracting similar plot points as human annotators. However, it does not always sequence these events correctly, leading to a somewhat fragmented or misleading representation of the narrative. The system recognizes crucial story elements, but it does not consistently assign them appropriate levels of importance. As a result, minor details may be emphasized while more significant events receive insufficient attention.

One major issue is models difficulty in structuring the plot in a way that follows a logical progression. While it successfully identifies key moments, it sometimes fails to arrange them in the order in which they occur within the narrative. This can lead to a disjointed retelling of the story, making it harder for users to follow the logical flow of events. The ability to correctly sequence and prioritize plot points is essential for ensuring that the extracted information aligns with how a human reader would interpret the story.

Improvements in plot discovery should focus on refining how events are categorized and ranked in terms of significance. By incorporating mechanisms to better understand causal relationships between events and their relative importance, the system could more accurately mirror human comprehension of a story. This would not only make the extracted plot more readable but also enhance models usefulness for summarizing and analyzing large volumes of textual data.

### **Story Evolution**

Model struggles to accurately track changes within a narrative, often misidentifying the central theme as a major shift in the story. While it correctly highlights key elements, it does not effectively distinguish between a story’s introduction and actual developments. This results in a static interpretation of the article, where the story appears to remain unchanged rather than progressing through different stages.

Furthermore, model does not consistently capture the full range of relational shifts that occur within a story. While some evolving relationships between entities are recognized, others are missed, limiting the model’s ability to reflect how narratives develop over time. This shortcoming is particularly problematic in news reporting, where understanding how events unfold is crucial for grasping the significance of a story.

DELFI

### **Named Entity Recognition**

Model has generally performed well in identifying locations within the text, successfully recognizing all full locations, including Somijas jūras līcis (the Gulf of Finland), even though Finland had already been mentioned in the list of locations. However, models performance falters in actor recognition, where it only identified three actors, despite there being six relevant actors mentioned in the article. This oversight suggests a limitation in the model's ability to accurately identify all the significant entities involved. While model managed to recognize the most important entities, it failed to capture the full scope, highlighting the need for refinement in actor identification.

In terms of timeline recognition, models performed reasonably well by identifying specific dates. However, it missed more complex expressions like "vairāki mēneši" (several months), which reflects a challenge in recognizing relative time references..

### **Relationship Extraction**

The Relationship Extraction process shows mixed results. While the model successfully identifies some relationships between entities, it does so without sufficient clarity or explanatory detail. The relationships are noted but are not explained in a manner that fully elucidates the nature of the connection between the entities involved. For example, although the relationships between the actors and events are correctly identified, the sentences in which they are embedded do not always present these relationships in a clear, structured way. This can result in a misleading interpretation of the connections, potentially altering the narrative. Furthermore, while some relationships are identified, there are additional potential connections within the text that are not captured by the system.

### **Plot Discovery**

The Plot Discovery, extracts many of the same elements as human annotators would, yet the way these elements are processed and structured deviates significantly from human interpretation. While the system recognizes key elements of the article’s plot, it does not always place them in the correct order or assign them the appropriate narrative weight. This suggests that while the system identifies relevant plot points, it struggles with sequencing and prioritizing these events according to their importance within the context of the story. Consequently, while the extracted data is largely accurate, the models ability to represent the logical flow of the narrative is somewhat impaired..

### **Story Evolution**

Models understanding of Story Evolution is limited, as it fails to correctly identify shifts in the story. Rather than detecting a true shift or change in the narrative, the system focuses on the central theme of the story, treating it as a shift, when in reality it serves as the article's main subject. This misunderstanding prevents the model from accurately tracking how the story evolves, as it conflates the introduction of the story with a significant narrative development. Additionally, although the model correctly identifies some relationships, it misses out on other potential relational shifts that are crucial to understanding the narrative’s progression. The system’s output could be significantly enhanced by improving its ability to recognize narrative shifts and extract a wider range of relationships that occur throughout the article.

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LA

### **Named Entity Recognition**

Model demonstrates a mixed performance in recognizing entities within the text. While it correctly identifies most locations, there are notable shortcomings in actor recognition. For instance, key actors such as NATO, EU, and Somijas robežsardze (the Latvian Border Guard), as well as Kriminālpolicijas (the Criminal Police), are overlooked despite their critical relevance to the story. Furthermore, model occasionally misclassifies entities, recognizing actors as locations, and extracts Latvian and Estonian from mentions of ministers, which could lead to confusion. Though the system captures most of the entities, it fails to provide sufficient context or clarity without the original text, making the extracted information difficult to interpret. The system also struggles with recognizing specific days and more complex time expressions, indicating a need for better handling of temporal references.

### **Relationship Extraction**

In Relationship Extraction, model encounters similar challenges as seen in the NER section. While it identifies relationships between entities, it often does so without providing the necessary clarity or action within the relationships. The extracted relationships are presented in sentences that lack structure, making it difficult to discern the true nature of the interactions between the entities involved. In some cases, the relationships are not explicitly defined, leaving the models output somewhat ambiguous. This lack of contextual clarity hinders the models ability to accurately convey the relationships, making it harder for users to understand the intended meaning or significance of these connections.

### **Plot Discovery**

The Plot Discovery function performs reasonably well, with many of the key plot points being accurately identified. While there are some discrepancies between the models output and human analysis, the main plotline is generally captured and can be understood from the extracted information. The system successfully identifies the overarching narrative, although certain elements may be misrepresented or assigned different levels of importance compared to a human interpretation. Despite these minor issues, the plot's central theme remains clear, and the model provides a usable representation of the article's storyline.

### **Story Evolution**

In terms of Story Evolution, the models shift detection is somewhat acceptable, as it identifies a shift in the narrative. However, the identified shift is more reflective of the beginning of the story rather than a true narrative progression. While this detection is acceptable, it does not fully capture the complexities of the evolving storyline. The model does well to extract key relationships, but similar to previous sections, it misses other potential connections that could provide a deeper understanding of the story’s evolution. Although the system performs adequately in summarizing the story's main points, there is significant room for improvement in capturing the full scope of the narrative's development and extracting more relevant relationships to offer a more comprehensive view.

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LSM

### **Named Entity Recognition**

Model exhibits some notable successes and areas for improvement. It correctly identifies most locations, but an issue arises with Apvienotā Karaliste (Zviedrija) (the United Kingdom and Sweden), where the system seems to struggle in distinguishing these two locations correctly. While it does a relatively good job at identifying major locations, the system fails to recognize smaller or less prominent ones, such as Pols Junsens and other actors. This oversight diminishes the comprehensiveness of the entity recognition process. Model also struggles with identifying events in a nuanced way; while some events are correctly extracted, others are either overly generalized or misinterpreted. Timeline recognition remains an issue, as the system struggles with understanding days and more complex time expressions, which points to a need for better handling of temporal concepts.

### **Relationship Extraction**

In Relationship Extraction, model successfully identifies two entities and suggests a relationship between them. However, it fails to provide the necessary context or explanation for these relationships. The relationships are identified, but model does not explain the nature of these connections or how the entities are interacting. This lack of clarity makes it difficult for users to fully understand the relationships between the entities, limiting the usefulness of the extraction.

### **Plot Discovery**

Model is relatively accurate, as it identifies key elements of the story and captures the essential plot points. Despite some narrowing down of the details, model essentially mirrors the key narrative components identified by human annotators. This is a positive outcome, as it demonstrates the system's ability to grasp the broader structure of the plot. However, the system does not fully replicate the nuances that a human annotator would capture, which could result in a less comprehensive understanding of the narrative's development.

### **Story Evolution**

Models analysis is somewhat effective, though it lacks depth in its understanding of the narrative's shifts. It correctly identifies the plot but fails to capture the more subtle shifts that occur within the story. While it correctly marks the primary narrative focus, there are additional shifts in the story that the model overlooks. The relationship extraction process here is somewhat useful, as it recognizes some connections within the story. However, similar to previous sections, the system fails to detect all of the potential relationships and narrative shifts, limiting its ability to offer a fully detailed account of the story's evolution.

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TVNET

### **Named Entity Recognition**

Model encounters several issues with its identification of entities. For instance, it fails to recognize a city mentioned in the article, which indicates a gap in its geographical entity recognition capabilities. Additionally, it incorrectly classifies NATO and the EU as locations, when in fact they are actors or organizations, not geographic locations. However, model performs relatively well when identifying major actors within the article, though there is still room for improvement in recognizing smaller, less prominent entities. When it comes to recognizing events, the system faces challenges as well. Some events are identified correctly, while others are either misclassified or inaccurately represented, indicating that the model struggles with the context and nature of certain events. While the system shows progress in recognizing more complex temporal expressions, this success is somewhat limited due to the nuances of the Latvian language and the specific ways time is described, suggesting that language-specific elements need further refinement.

### **Relationship Extraction**

In Relationship Extraction, model makes an attempt to connect entities, but the relationships it identifies are often incomplete or misrepresented. While it successfully identifies some relationships, there are significant gaps where entities are missing or the connections between them are unclear. These mishaps hinder the overall usefulness of the extracted relationships. Additionally, model does not always fully explain the nature of these relationships, making it difficult to understand how the entities are connected or what their interactions entail.

### **Plot Discovery**

In the Plot Discovery section, model does reasonably well at identifying the main events of the story, but there are some discrepancies in how these events are categorized. While the model recognizes key plot elements, it occasionally places them in different contexts or groupings, which could lead to slight misinterpretations of the narrative flow. While these discrepancies are not critical, they do reflect a lack of fine-tuning in how events and plot points are mapped. Despite this, model does succeed in capturing the overall storyline and the key themes, though there is room for improvement in how it structures and categorizes these plot points.

### **Story Evolution**

The Story Evolution function is less successful, particularly in its ability to detect shifts in the narrative. Model does not effectively identify specific transitions or developments within the story, and instead treats the entire article as a singular, unchanging narrative. While it detects the beginning of the story, it does not fully grasp the dynamic evolution of the plot or the shifts that occur as the story progresses. Additionally, while it identifies some relationships, it misses many others that could further enrich the understanding of the story’s progression.