

2. **Paragraph selection:** Involves conducting an initial exploration to understand the diversity and range of texts available, focusing on identifying varied themes, styles, and domains that reflect the richness of the Slovenian language. With the use of Python, we will segment texts into paragraphs, ensuring that each extracted paragraph stands as a coherent unit of text. After that, each of the group members will extract 50 coherent paragraphs from the corpus that can serve as

premises for NLI pairs and categorize them based on the potential for entailment, neutrality, or contradiction.

3. **Designing prompts for LLMs:** For each selected paragraph, we will craft tailored prompts designed to guide LLMs in generating hypotheses that are either entailed by, neutral to, or contradict the paragraph’s content. This creative step is vital for ensuring the generated hypotheses are relevant and diverse. We will then employ ChatGPT-4 to produce hypotheses. For example, if we have the following premise: “Slovenia celebrates its independence on June 25,” we would tell the model to distort or directly oppose this information to generate a contradictory paragraph. These generated texts will then be paired with their corresponding paragraphs, thus forming the preliminary NLI pairs.

4. **Manual review and annotation:** Each NLI pair will undergo a manual review process to validate the logical relationship between the paragraph and the hypothesis. This step ensures the accuracy and reliability of the dataset, with multiple reviewers involved to mitigate subjectivity.

5. **Dataset Compilation:** After review and annotation, the pairs are compiled into a comprehensive dataset. We strive for a balanced representation of logical relationships, ensuring the dataset’s utility across various NLP applications.

7. **Preliminary Evaluation:** Finally, we conduct an assessment of the dataset’s effectiveness by training a baseline NLI model, ChatGPT-4. Using this particular model seems reasonable, as it can generate more complex and nuanced results, distinguishing our dataset assessment with a higher level of analytical depth not as readily achievable with the more widely available ChatGPT-3. This evaluation phase is crucial for identifying any areas for refinement, guaranteeing that the dataset serves as a robust tool for advancing NLP research in Slovenian.

## Equations

You can write equations inline, e.g.  $\cos \pi = -1$ ,  $E = m \cdot c^2$  and  $\alpha$ , or you can include them as separate objects. The Bayes’s rule is stated mathematically as:

$$P(A|B) = \frac{P(B|A)P(A)}{P(B)}, \quad (1)$$

where  $A$  and  $B$  are some events. You can also reference it – the equation 1 describes the Bayes’s rule.

## Lists

We can insert numbered and bullet lists:

1. First item in the list.
  2. Second item in the list.
  3. Third item in the list.
- First item in the list.
  - Second item in the list.
  - Third item in the list.

We can use the description environment to define or describe key terms and phrases.

**Word** What is a word?.

**Concept** What is a concept?

**Idea** What is an idea?

## Random text

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## Figures

You can insert figures that span over the whole page, or over just a single column. The first one, Figure 1, is an example of a figure that spans only across one of the two columns in the report.

**Figure 1. A random visualization.** This is an example of a figure that spans only across one of the two columns.

On the other hand, Figure 2 is an example of a figure that spans across the whole page (across both columns) of the report.

## Tables

Use the table environment to insert tables.

## Code examples

You can also insert short code examples. You can specify them manually, or insert a whole file with code. Please avoid inserting long code snippets, advisors will have access to your repositories and can take a look at your code there. If necessary, you can use this technique to insert code (or pseudo

**Table 1.** Table of grades.

Name		Grade
First name	Last Name	
John	Doe	7.5
Jane	Doe	10
Mike	Smith	8

code) of short algorithms that are crucial for the understanding of the manuscript.

**Listing 1.** Write the code you want to insert.

```
import (dplyr)
import (ggplot)

ggplot (diamonds,
        aes(x=carat, y=price, color=cut)) +
  geom_point() +
  geom_smooth()
```

## Results

Use the results section to present the final results of your work. Present the results in a objective and scientific fashion. Use visualisations to convey your results in a clear and efficient manner. When comparing results between various techniques use appropriate statistical methodology.

### More random text

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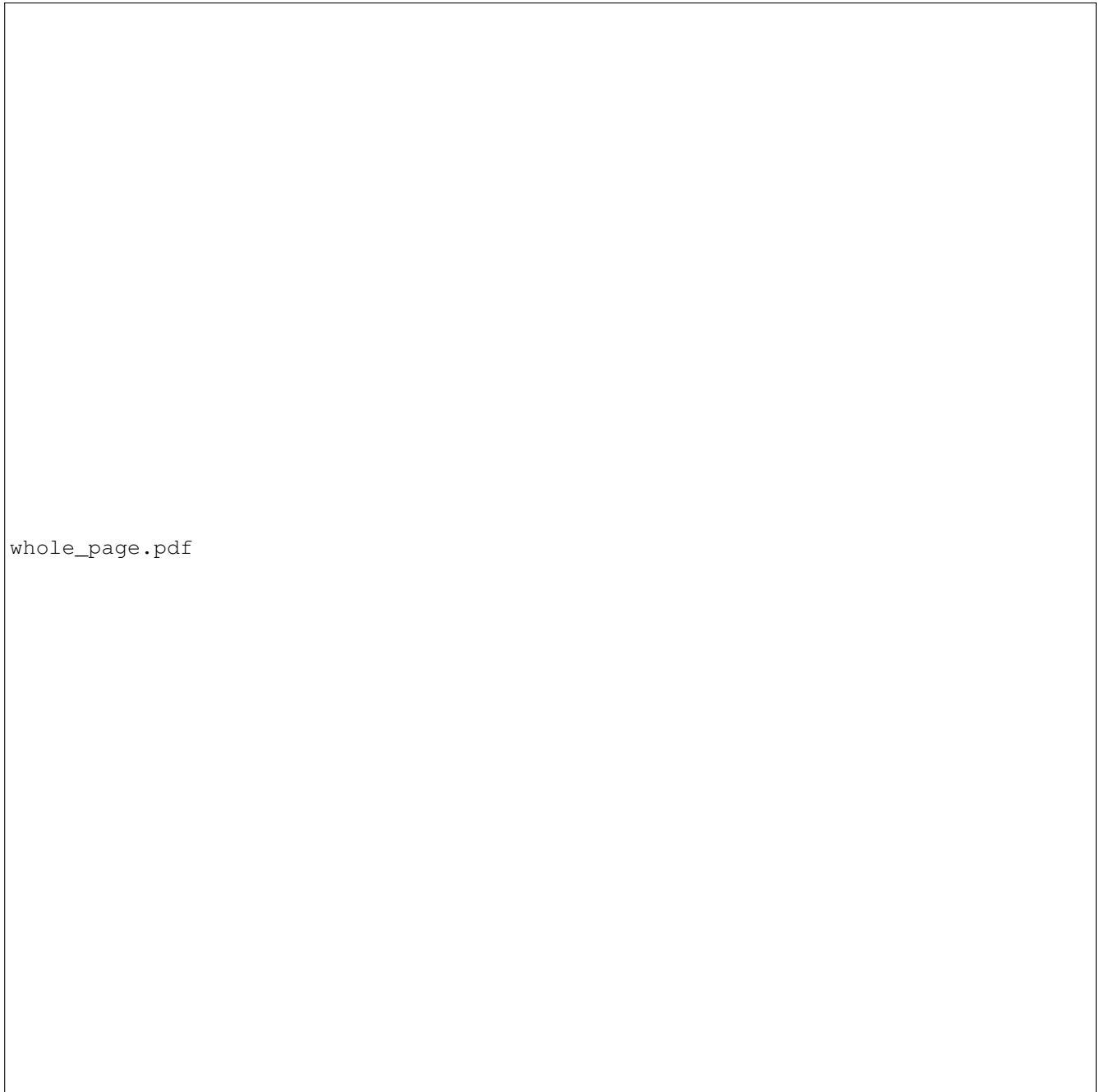
## Discussion

Use the Discussion section to objectively evaluate your work, do not just put praise on everything you did, be critical and exposes flaws and weaknesses of your solution. You can also explain what you would do differently if you would be able to start again and what upgrades could be done on the project in the future.

## Acknowledgments

Here you can thank other persons (advisors, colleagues ...) that contributed to the successful completion of your project.

## References



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**Figure 2. Visualization of a Bayesian hierarchical model.** This is an example of a figure that spans the whole width of the report.