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[illegible]

Natural language processing, bias, translation errors, bias in LLMs

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

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.

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

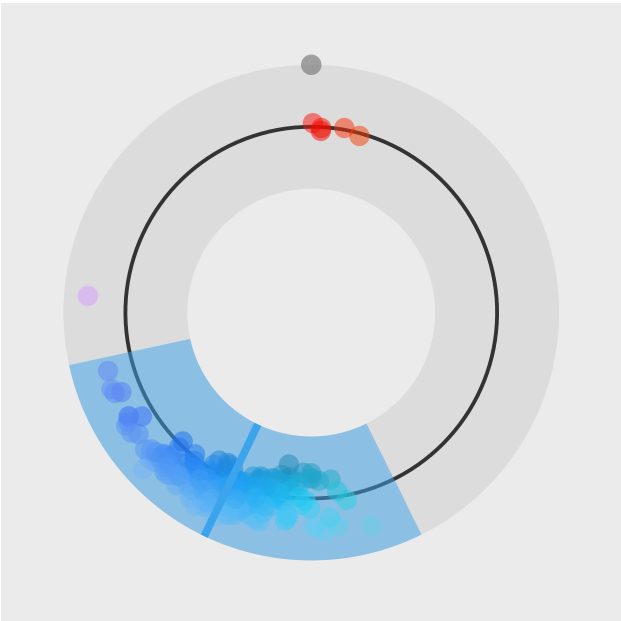


Figure 1. A random visualization. This is an example of a figure that spans only across one of the two columns.

Tables

Use the table environment to insert tables.

Table 1. Table of grades.

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

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

Listing 1. Insert code directly from a file.

```
import os
import time
import random

fruits = ["apple", "banana", "cherry"]
for x in fruits:
    print(x)
```

Listing 2. Write the code you want to insert.

```
import (dplyr)
```

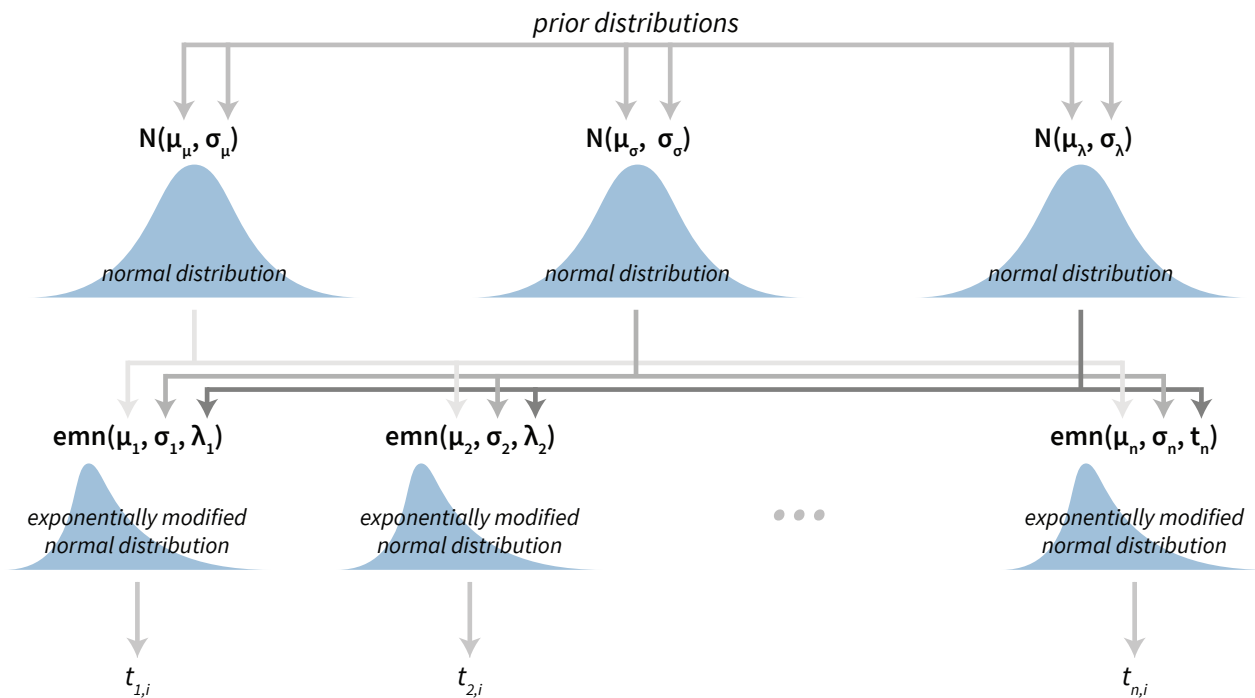


Figure 2. Visualization of a Bayesian hierarchical model. This is an example of a figure that spans the whole width of the report.

```
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

Roberto Navigli, Simone Conia, and Björn Ross. 2023. Biases

in Large Language Models: Origins, Inventory, and Discussion. *J. Data and Information Quality* 15, 2, Article 10 (June 2023), 21 pages. <https://doi.org/10.1145/3597307>

data used for translation and bias analysis: <https://www.theguardian.com/us-news/2025/mar/20/trump-executive-order-education-department>
<https://arxiv.org/pdf/2412.04782>