UiT The Arctic University of Norway

CENTRE FOR DIGITAL LIFE NORWAY

**INF-8605-1 24H Interpretability in Deep Learning, pp. 1–2**
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# DEMO Template for INF-8605 Final Report Submission <Project Title>

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**Abstract**
The abstract should summarize the key points of the project, including the problem addressed, the methods used, and the main findings. It should be concise, typically no more than 250 words. The abstract should be written in one paragraph, without citations, and should not include any information not present in the paper.

**Keywords:** Neural Network; Interpretability; Deep Learning; eXplainable Artificial Intelligence (XAI); Model Transparency

## 1. Introduction

This demo file is intended to serve as a "starter file" for the INF-8605 Interpretability of Deep Learning Autumn School Final Report Submission produced under LaTeX. I wish you the best of success.

The introduction should provide context for the paper, including background information, the motivation for the study, and the research problem. Clearly state the research objectives and questions. Provide an overview of the structure of the paper.

### *1.1. Guidelines*

- The title should be left-aligned, bold, and in a 24-point font. It should be concise, descriptive, and reflect the key aspects of the paper.
- Author name should be listed under the title, centered, and in a 12-point font. List the full names of the author (course participant only), followed by their affiliations.
- Affiliations should include the department, institution, city, and country. Provide an email address for at least the corresponding author.
- Include 3-5 keywords that reflect the main topics covered in the paper. Keywords should be separated by commas and listed in alphabetical order.
- Use IEEE style for references, which includes numbering citations in the order they appear in the text. Ensure all references are complete and correctly formatted
- Figures and Tables: Place figures and tables after they are first referenced in the text. Use high-quality images and provide descriptive captions. Number figures and tables sequentially and ensure they are referenced correctly in the text.

## 2. Research Background

Discuss previous research relevant to your topic. This should include a review of similar studies, highlighting their methods and findings. Explain how your work differs from or builds upon these studies.

## 3. Method & Implementation

Describe the methods used to conduct the research. This should include data sources, tools, models, and algorithms. Provide enough detail so that others can replicate your study. Use subsections to organize different aspects of the methodology such as Data Collection, Model Description, Interpretability Techniques.

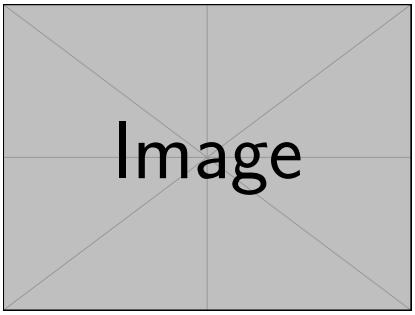


Figure 1: Sample Caption for the Figure

### *3.1. Subsection Heading Here*

Subsection text here.

## 4. Results

Present the results of your study, using tables and figures where appropriate. Discuss the findings in relation to the research questions posed in the introduction. Avoid interpreting the results in this section; save that for the discussion.

Table 1: Sample Table of Items

| Item No. | Description | Price ($) |
|---|---|---|
| 1 | Widget A | 10.00 |
| 2 | Widget B | 15.50 |
| 3 | Widget C | 7.25 |
| 4 | Widget D | 22.30 |
| 5 | Widget E | 9.99 |

## 5. Summary and Discussion

Interpret the results and discuss their implications. How do they contribute to the field? What are the limitations of the study? Discuss how your findings compare to those of other studies.

Suggest possible directions for future research.

## 6. Conclusion

Summarize the main findings of the paper. Restate the importance of the research and its contributions.

Provide a closing statement on the potential impact or next steps in the research.

## Acknowledgments

## References

1. Somani A, Horsch A, and Prasad DK. Interpretability in deep learning. Springer, 2023