

NLU-DL Project Guidelines

Page Limit

- 6 pages (excluding appendix).
- Follow the [Overleaf Template](#) (click *Menu* → *Copy Project* to duplicate).
- Refer to sample project reports from Stanford's [CS224N course](#) for style and structure.

Good LaTeX practices

- Use booktabs package for tables
- Use biblatex for citations

Title

Title: A working title. This can be changed later.

Authors: Names of all project partners. If you have a mentor (other than me), you should also indicate them as a co-author.

Role: Under each author name, mention the role of the author (e.g. student or mentor)

Affiliation: Indicate which department and university of each author.

Abstract (200 words):

Indicate in 200 words what the project is about, why it is important, and what is novel. What are/will be the findings of the project?

1. Introduction

Briefly motivate your project and define the problem.

- Start with a broader NLP trend, then narrow to your specific question or hypothesis.
- Highlight what is novel or unexplored.
- Explain why this problem matters and what insights you expect to gain.
- Include a small illustrative figure if possible.
- End with a short summary of your proposed approach and contributions.

2. Related Work

Situate your project within the existing literature.

- Discuss **aspects** of the problem (e.g., modeling choices, data, evaluation) and how prior work approached them.
- Explain **how your work differs or builds on** these approaches.
- Focus on clarity, not quantity, only include relevant, influential papers.
- Avoid making unsupported or dismissive claims about others' work.

3. Data and Environment

Describe the datasets and tools used.

- **Data:** Sources, examples, and key statistics (train/validation/test splits, number of labels, length distributions, etc.).
- **Evaluation metrics:** Define and justify your chosen metrics.
- **Environment:** Mention frameworks (e.g., PyTorch), libraries, and any computational setup.

4. Methods

Explain your models and hypotheses.

- State the **research hypothesis** clearly (e.g., “Word order improves cross-lingual alignment”).
- Include at least two model types:
 - **Baselines:** Describe standard or prior methods you compare against. Use the same data/resources for fair comparison.
 - **Proposed Model(s):** Explain your main idea, architecture, and key innovations.
- Provide high-level math and diagrams where helpful.
- Explain *why* your model should outperform baselines.

5. Experiments and Results

Summarize your experimental setup and findings.

- **Training details:** Hyperparameters, number of runs (recommend ≥ 3), epochs, and hardware.
- **Example Results Table could look like:**

Model	Validation	Test	Notes
Baseline (reported)	mean \pm std	mean \pm std	from paper
Or Baseline (reimplemented)	mean \pm std	mean \pm std	your run
Proposed Model	mean \pm std	mean \pm std	your main result

- **Analysis:**
 - Discuss why results look the way they do.
 - Highlight where your model improves or fails.
 - Provide qualitative examples if useful.

6. Discussion

Interpret your findings.

- What do the results say about your hypothesis?
- Any unexpected observations?
- Limitations or open questions?
- Possible future directions.

7. Conclusion

Summarize your contributions and findings.

- State main takeaways and next steps.
- Include your **GitHub repository** link.

Appendix (Optional, up to 1 page)

- Extended dataset samples or statistics.
- Additional experimental results.
- Implementation details not central to the main discussion.

Team Contributions

If working in a group, list each member's role clearly. Example:

Aditi: Designed experiments and implemented models.

Alex: Conducted data analysis and wrote the Methods section.

Siva (mentor): Provided guidance and feedback.

Publication and Beyond

Outstanding projects may be developed into conference or workshop papers (ACL, NAACL, COLING, etc.).