XCS229ii Final Paper

May 10, 2021

Agenda

Final paper - Agenda

- General information

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- General information

- Sections

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- General information

- Sections

- Short Q&A

Final paper - Agenda

- General information

- Sections

- Short Q&A

- Guests discussion

Final paper - Agenda

- General information

- Sections

- Short Q&A

- Guests discussion

- Final Q&A

Final Paper - General Information

Final paper – Definition

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- Concise summary of research and experiments

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- Emphasize:

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- Emphasize:

  - your models' results

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  - how you evaluate success

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  - how you evaluate success

  - **how did you improve the model performance**

Final paper – Definition

- Concise summary of research and experiments

- Emphasize:

  - your models' results

  - how you evaluate success

  - how did you improve the model performance

- Compare the progress to the plan from Experimental protocol

Final paper – Info

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- Due on Sunday, May 23

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- Worth 50 points, i.e. half of the total project score

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- 6 – 8 pages document in a ML conference format

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- 5 extra credits if you share the project for feedback

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- Don't forget about the penalty waiver

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- Submit on Gradescope both the document and the code

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- Leverage the course staff

Final Paper - Sections

1. Abstract

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- Give some context for the work

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- Define the current proposal and situate it in that context

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- Summarize the core findings

- Identify the broader significance of the work

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- Worth 5 points

- Keep it very short

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2. Introduction

2. Introduction - 1

- Worth 10 points

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- Worth 10 points

- Should tell the full story of the paper

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- What area of the field are you working in?

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- Should tell the full story of the paper

- What area of the field are you working in?

- What hypothesis is being pursued?

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- Should tell the full story of the paper

- What area of the field are you working in?

- What hypothesis is being pursued?

- What concepts does your hypothesis depend on?

2. Introduction - 2

- Why *this* hypothesis? What broader issues does it address?

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- What steps does the paper take to address your hypothesis?

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- What are the central findings of the paper, and how do they inform the core hypothesis?

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2. Introduction - 2

- Why *this* hypothesis? What broader issues does it address?

- What steps does the paper take to address your hypothesis?

- What are the central findings of the paper, and how do they inform the core hypothesis?

- Use "Hypotheses" section from the Experimental Protocol

3. Methods

3. Methods - 1

- Worth 12 points

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- Define your task in a clear, concise manner

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- Define your task in a clear, concise manner

- Describe the properties of your dataset

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- Motivate your dataset choice

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- Define your task in a clear, concise manner

- Describe the properties of your dataset

- Motivate your dataset choice

- Formally describe each model

3. Methods - 2

- Include at least the baseline and experimental models

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- For each model describe its infrastructure and assumptions

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- For each model describe its infrastructure and assumptions

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- Use "Datasets", "Models" and "General Reasoning" sections from the Experimental Protocol

4. Results

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- Report the metrics for all your models

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- Use "Summary of progress so far" from the Experimental Protocol

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- Report the metrics for all your models

- Describe all ML Theory techniques used to evaluate the success of the models

- Describe how the results compare to previous research

- Use "Summary of progress so far" from the Experimental Protocol

- Worth 8 points

5. Discussion

5. Discussion

- Worth 12 points

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- Describe the importance and significance of your results

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- **Describe ways of expanding upon the implications of your findings**

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- **Limitations and directions of future research**

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- Describe ways of expanding upon the implications of your findings

- Limitations and directions of future research

- Use "General reasoning" from the Experimental Protocol

6. References

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- Worth 3 points

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Final Paper - Summary

Final paper - Key takeaways

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- Cover all sections

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- Consider the extra credit

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- Last chance to use the penalty waiver

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- Check out the final report for past projects

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- Don't hesitate to ask for help

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Short Q&A

Guests discussion