Final Project Details

PLEASE READ THE FINAL PROJECT DOCUMENT ON THE WEBSITE FOR FULL DETAILS

Brief Overview

- **Goal:** Apply tools and concepts we have learned to a project of your choice
- Open-Ended: can choose a project that is more theoretical, experimental, applied, etc.
- Projects *must* be completed in pairs.

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Timeline

- **March 7** – Project partners are due (3%)
- **March 20** – Project Proposal due (10%)
- **April 10** – Project check-in due (12%)
- **April 24** – Project presentations in class (15%)
- **April 24** – Final project submission due (60%)

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Choosing a Project

- **Goal:** Choose a project that is clearly related to the overarching themes and material of the course
- **Application Project** – Utilize tools we have learned (PicoSAT, OR-Tools, etc.) in order to effectively model and solve a challenging problem.
- **Theory Project** – Seek to expand knowledge about some of the high-level techniques we have learned, or develop new techniques.
- **Experimentation Project** –
  - Applied experimental – may involve testing and comparing multiple tools and classify easy/difficult inputs
  - Theoretical experimental – modify/improve a technique and measure the effect in a variety of situations.

Partner Selection

- **Due March 7th** by 11:59pm
- Find a partner
  - Good time to do this would be before/after class
  - Post on Ed if you are looking for a partner
- **Submission:**
  - Blank page on Gradescope as a **group submission** with your partner and yourself

Project Proposal

- **Due March 20th** by 11:59pm
- Joint submission of a document containing:
  - Names of group members
  - Title for your project
  - 1-3 paragraph description of project: what is it? What are the goals of the project? How it relates to course material?
  - 1-3 paragraphs of tentative plan for implementing project – what tools/techniques apply? What learning resources you will use?
  - 1-3 paragraphs of how project should be evaluated – how will you test it? What will be your metrics for success?

Project Check-in

- **Due April 10th** by 11:59pm
- You should have ~75% of your project complete
- **Submission: A document containing:**
  - Names of group members & project title
  - Overview of what you have accomplished
    - Include data, results, screenshots, snippets, etc. (no code)
  - Explanation of how the scope/goals may have been revised and why
  - Overview of what you still have left to accomplish and your path to doing so
- **OR: Meet with a TA and cover the above**

Project Presentation

- **Due April 24th** in class
- You and your partner will give a 7-9 minute presentation demonstrating functionality or end-result of your project
- Save 2-3 minutes for questions

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Final Submission

- **Due April 24th** by 11:59pm
- **Submission:**
  - All code and notebooks related to your project
  - README document
  - Results document
  - Short Video Demo
  - Other files

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