RESEARCH & PRESENTATION

FINAL PROJECT

OVERVIEW

- You may work individually or with another student

- Select a machine learning topic that interests you

  - Find high quality references to support your research topic (journal/conference papers, textbooks, lectures, podcasts etc)

  - Write & run your code to solve a specific problem related to your topic

DELIVERABLES

- Proposal
- Presentation
- Final report

- See *weekly course schedule* for due dates

- Proposal
  - Your name and your partner's name (if any)
  - Title of the research project
  - One paragraph describing what you are planning to do

  - Submit **one** proposal/group

- Presentation (last week of the quarter)
  - Submit **one** slide set/group (PPT or PDF)
  - Maximum 7 slides
    - File name: *your_names(s)-project_title*
  - 10 minutes maximum including Q & A (tentative)

  - Sign up sheet
    - You must sign up otherwise you cannot present
    - Put your name on the *shaded* area

  - Everyone must be <u>present</u> for all presentations

- Final report
  - Free format but must contain: abstract, research content (theory & experiments), conclusion, references
  - Minimum 1500 words
  - Submit your code separately

  - Submit **one** report/group

  - Grading will be based on the quality of the report & on-time submission
    - *Unicheck* will be used for plagiarism check

PREVIOUS RESEARCH PROJECTS

- Pneumonia predictions
- Energy predictions
- Emoji recognition
- Sales forecasting
- Reinforcement learning
- Twitter sentiment analysis
- Image predictions
- Star classification

- Malware detection
- Human face detection
- Fake news detection
- Image classification
- Skin cancer diagnostic
- Real-time machine learning
- Google play store data analysis
- Gasoline price prediction