

# Project Announcement: CS 5890/6890 Special Topics Applied Deep Learning (02/13/2024)

Hi class !

Time to fix your groups for projects. This project will be an **individual/group (maximum 2 students)** project.

The project can be:

- A research or survey project on following topics:
  - Machine learning or deep learning theories and applications
  - Computer vision
  - Speech recognition
  - Natural Language Processing/ Text mining
  - Graph representation learning
  - Generative modeling
- A research project
  - A Kaggle project: <https://www.kaggle.com/competitions>
  - Research project based on new project ideas
    - How to get new ideas?
      - Recent ML conference and journal papers such as [NeurIPS](#), [ICML](#), [ICLR](#), [CVPR](#), [JMLR](#), [KDD](#), [TKDE](#), [ECCV](#), [EMNLP](#), [AAAI](#), [IJCAI](#), [ICDM](#), [CIKM](#), and [SDM](#). Another source of papers is [arxiv](#).
    - Be careful about the availability of the dataset
  - Deliverables: project proposal presentation (**02/22/2024**), [1 page project proposal report](#) (**02/22/2024**), one research paper presentation (**03/19/2024** and **03/21/2024**), and final project paper ([6 pages 2 column IEEE format](#); without references; due **04/23/2024**), and final project presentation (**04/18/2024** and **04/23/2024**).
- A survey project
  - Reading a large number of papers from the abovementioned venues
  - Deliverables: project proposal presentation (**02/22/2024**), [1 page project proposal report](#) (due **02/22/2024**), one research paper presentation (**03/19/2024** and **03/21/2024**), and final project paper ([8 pages 2 column IEEE format](#); without references; due **04/23/2024**), and final project presentation (**04/18/2024** and **04/23/2024**).
- If your work is good, you will not only get good grades in the project but also you might have an option for conference paper/journal submission with the collaboration of the instructor.

Other useful links:

- [Google's Python class](#)
- [Google Colab Tutorial](#)
- [TensorFlow Tutorials](#)
- [Pytorch tutorials](#)
- [mxnet tutorials](#)