

Project Announcement: CS 5890/6890 Special Topics Applied Deep Learning (02/02/2023)

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 (**02/14/2023**), [1 page project proposal report](#) (**02/14/2023**), research paper presentation (**02/28/2023** and **03/02/2023**), and final project paper ([6 pages 2 column IEEE format](#); without references; due **04/28/2023**), and final project presentation (**04/25/2023** and **04/27/2023**).
- A survey project
 - Reading a large number of papers from the abovementioned venues
 - Deliverables: project proposal presentation (**02/14/2023**), [1 page project proposal report](#) (due **02/14/2023**), research paper presentation (**02/28/2023** and **03/02/2023**), and final project paper ([8 pages 2 column IEEE format](#); without references; due **04/28/2023**), and final project presentation (**04/25/2023** and **04/27/2023**).
- 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](#)