

(Project) Assignment: 3

AI+X: Deep Learning

**DUE: Nov. 5 \*Submit in Class\***

**\*\*Task-1: Report your group members (4-5 people).**

**Member 1: Name, Major, Student ID**

**Member 2: Name, Major, Student ID**

**Member 3: Name, Major, Student ID**

**Member 4: Name, Major, Student ID**

**\*\*Task 2: Set up your blog space for the final project. This is where you will be writing about your final projects. Go to the following spreadsheet and report your group members and blog address. Your blog should be empty for now.**

AI+X-Deep Learning-Projects-2019:

[https://docs.google.com/spreadsheets/d/1elliFsuB5J7S-Qh27\\_q-TkMdlCw-9t9ZRuwnb6KZvBI/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1elliFsuB5J7S-Qh27_q-TkMdlCw-9t9ZRuwnb6KZvBI/edit?usp=sharing)

Blog Sites:

[www.medium.com](http://www.medium.com)

<https://www.blogger.com>

or any other tech blog/blogging sites.

Tech Blog Samples:

<https://www.kaggle.com/mrisdal/exploring-survival-on-the-titanic/report>

<https://medium.com/about-developer-blog/xgboost-gone-wild-predicting-returns-with-extreme-gradient-boosting-3e2c16c5bc01>

<https://medium.com/greyatom/decision-trees-a-simple-way-to-visualize-a-decision-dc506a403aeb>

<https://blog.cloudflare.com/how-to-receive-a-million-packets/>

<https://skymind.ai/wiki/neural-network>

<https://towardsdatascience.com/machine-learning/home>

**\*\*Task 3: Option A and B.**

Submit your research proposal (half of a page long) including the title.

**Title:**

**Topic Proposal (Option A or B):**

When you choose your topic to work on, you can choose one of the following options:

**Option A:** Take a very similar step like Kaggle's Titanic example, you will show us how to investigate the dataset of your choice. You can choose one of the methods from the AI/Machine learning/DL libraries (e.g., <https://scikit-learn.org/stable/>, R - <https://cran.r-project.org/web/views/MachineLearning.html>, Weka - <https://www.cs.waikato.ac.nz/ml/weka/>, Neural Network packages, and many others.). You will show us a step-by-step procedure on how to do learning. Accuracy of your method does not matter in this project. Our assignment 2 is giving you a preview of what your project is going to be like.

**Option B:** You will choose one of the method (ML, DL algorithms), summarize its history, collect related work (URL, articles, publications), and explain as much as possible in words with appropriate diagrams. You are writing an article about the algorithm of your choice. Scikit-learn and R websites would be great resources for choosing your method to explain. For example, if you choose to explain 'Random Forest', then collect the related documents/websites, summarize/present them nicely, and explain in your own words with graphs/diagrams.

The idea is to present the analysis method nicely to the public.

You can either do Option A or B. Do not try both approaches. You have to choose and let me know from your tech blog later.

## SUBMISSION:

2 page max:

Report your group member and URL in google spreadsheet - Task 1.

Report title and topic proposal – Task 2. Print them out and submit in class.

We will discuss more in class. Don't worry.