

Applied Deep Learning

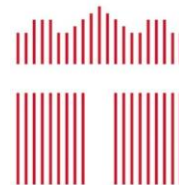


Course Logistics



February 22nd, 2021

<http://adl.miulab.tw>



National
Taiwan
University
國立臺灣大學

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Course Logistics

⦿ Instructor: 陳縉儂 Yun-Nung (Vivian) Chen

⦿ Time: Monday 234, 9:10-12:20

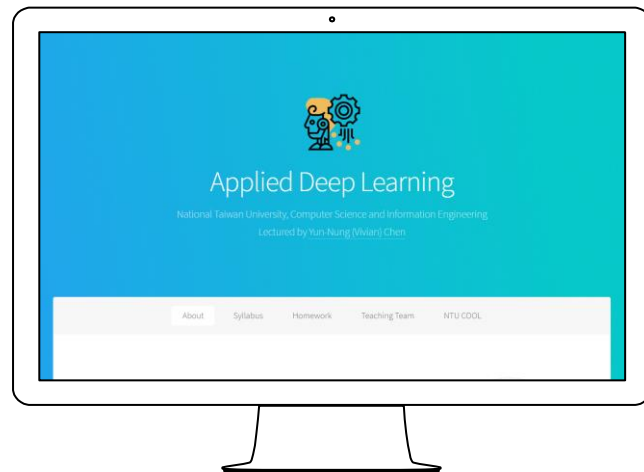
⦿ Location: 資103

⦿ Website: <http://adl.miulab.tw>

⦿ NTU COOL: <https://cool.ntu.edu.tw/courses/4591>

⦿ Email: adl-ta@csie.ntu.edu.tw

- To ensure timely response, email title should contain “[ADL2021]”
- Do NOT send to our personal emails



Always check the up-to-date information from the course website

NTU COOL for Fighting Coronavirus

- ◎ NTU COOL
 - Lecture videos
 - Comments anytime
 - Assignment submission (還可以寫 code 呢!)
- ◎ Slido QA
 - #ADL2021
- ◎ TA Team
 - Forum discussion (preferred)
 - Email QA
 - TA recitation/hours



Course Goal

- ◎ The students are expected to understand
 1. how deep learning works
 2. how to frame tasks into learning problems
 3. how to use toolkits to implement designed models, and
 4. when and why specific deep learning techniques work for specific problems

Pre-requisites

Course

- Required: college-level calculus, linear algebra
- Preferred: probability, statistics

Programming

- proficiency in Python; all assignments will be in Python
- GitHub; all assignments will be handed in via GitHub
- Kaggle; all assignments will be submitted to Kaggle



[\(tutorial](#) from Stanford)

GitHub

[\(tutorial](#)



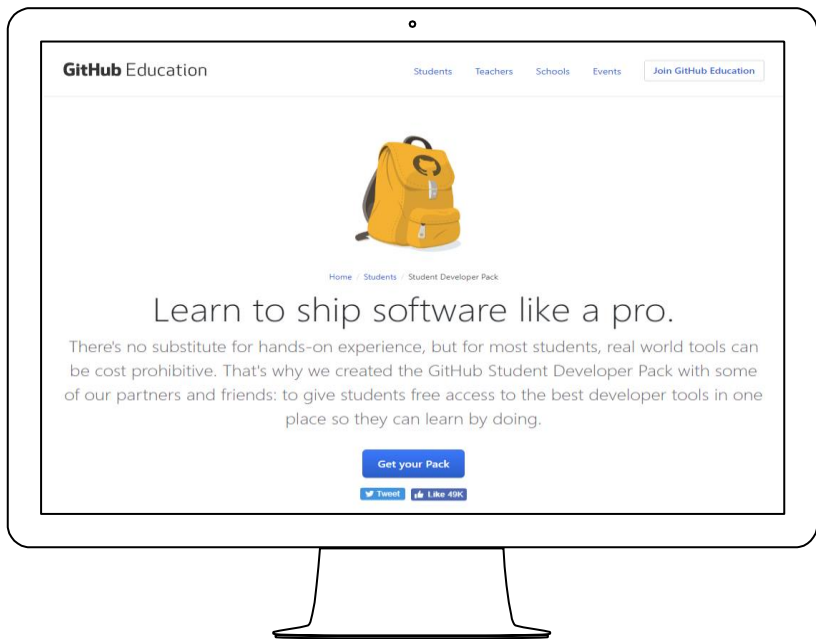
kaggle

[\(website\)](#)

Please consider your available resources for taking this course

GitHub Student Pack

- The [student plan](#) provides unlimited private repositories
 - make your assignments private before the due date
 - make them public afterwards



Grading Policy



- 3 Individual Assignment: $20\% \times 3 = 60\%$
 - GitHub code w/ README
 - The score is based on **coding** and the **report**
 - Bonus points for outstanding performance
 - Late policy: 25% off per day late afterwards**
- Final Group Project: 30%
 - GitHub code, Project document
 - Bonus points for the outstanding work
 - Final presentation (format TBA)
- Participation: 10%
 - Forum/slido discussion involvement
 - Write-up for the special events

Understanding the difference between “collaboration” and “academic infraction”

Individual Assignments

Automatically find names of people, places, and organizations in text across many languages.



A1. Sequence Tagging

A2. Transformer / BERT

A3. Language Generation

Final Group Project (2~5 persons)

- The final project topic will be announced later
 - Presentation
 - Poster or oral presentation
 - Project Report & Code
 - Wrap-up project report
 - GitHub code submission w/ README



The project details will be announced later

How to Get the Registration Code?

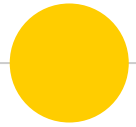
- Limit: 120 students per course
 - 72 registered
- Requirements
 - Available GPU Resources
 - Programming skills
 - Finish [HWO](#)
 - Fill in the [Google Form](#)



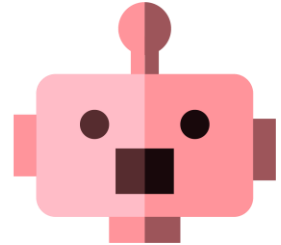
深度學習及其應用
科目流水號：
加選授權碼：
授課教師：陳縉儂

Tentative Schedule

Week	Topic	Assignment
1 2021/02/22	Course Logistics & Introduction	A0 – Pytorch Tutorial
2021/03/01	Break	
2 2020/03/08	NN Basics & Backpropagation	
3 2020/03/15	Word Representations + RNN	A1 – Summarization
4 2020/03/22	Attention	
5 2020/03/29	Word Embeddings + ELMo	
2020/04/05	Break	
6 2020/04/12	Transformer + BERT	A2 – BERT
2020/04/19	Midterm Break	
7 2020/04/26	More BERT	
8 2020/05/03	RL Intro + Basic Q-Learning	
9 2020/05/10	Policy Gradient + Actor-Critic	A3 – NLG
10 2020/05/17	Natural Language Generation	
11 2020/05/24	Special Topic: Conversational AI	Final Project
12 2020/05/31	TBA	
13 2020/06/07	TBA	
2020/06/14	Break	
14 2020/06/21	Final Project Presentation	



Teaching Assistant Team



Rules



Asking online questions is encouraged!!



**Any comment or feedback is preferred!!
(speed, style, etc)**

**I
♥
T.A**

Attending TA hours!! (details TBA)



Thanks!

Any questions ?

You can find the course information at

- <http://adl.miulab.tw>
- adl-ta@csie.ntu.edu.tw
- slido: #ADL2021
- YouTube: Vivian NTU MiuLab