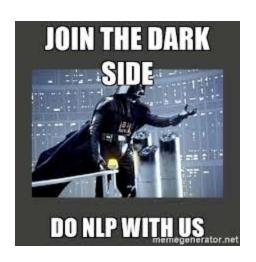
2110572: Natural Language Processing Systems Mondays 9:30-12:30 (ในเวลา) Saturdays 9:00-12:00 (นอกเวลา) ผู้สอน อ.เอกพล และ อ.ฟิรพล



Course Outline

The course will give an overview of the Natural Language Processing techniques in the transition period between traditional techniques and deep learning. The course will touch upon various standard NLP tasks, such as tokenization, language modeling, semantics, part-of-speech tagging, and parsing. Each topic will discuss both conventional and deep learning techniques. The second part of the course will go into application domains such as document classification, question answering, and chatbots. Many of the assignments will be in the context of Thai language. This course is not meant to be an entry-level machine learning course, and will not cover the basics of machine learning. This course is recommended for 4th year students who have already taken some machine learning course, and 3rd year students who are interested in doing senior projects that are related to NLP.

Tools: Python, keras, nltk, scikit-learn

Prerequisites: some background in machine learning/data science

Schedule (กำหนดการอาจมีการเปลี่ยนแปลง)

คาบเรียน		เนื้อหา	การบ้านและควิช
	00 1 00	FWOMI	111111146661041111
	23-Jan-20	Intro Traditional Talkanination	L IVA/A
21		Intro; Traditional Tokenization	HW1
25-Jan-20 21	30-Jan-20	Tokenization	HW2
1-Feb-20		Tokenization	I I I I I I I I I I I I I I I I I I I
21		PoS Tagging	HW3
8-Feb-20	13-Feb-2	r os ragging	11003
21		Language Model	HW4
15-Feb-2		Language Model	1100-7
021		Word Representation	HW5
22-Feb-2		Text Categorization + ประกาศ midterm exam	
021		(take-home)	HW6
1-Mar-20			
21		Parsing	HW7
8-Mar-20	13-Mar-2	5	
21	021	Midterm Exam Week (8-12 Mar); No classes	
		Midterm Exam Submission	
15-Mar-2	20-Mar-2	Attention mechanism & Machine Translation +	
021	021	QA	HW8
22-Mar-2	27-Mar-2		
021	021	Transformer	HW9
29-Mar-2		Recent Research in NLP	
021		Project Announcement + Paper Announcement	HW10, Project + paper
_ ·		NLP Application 1 (Guest); Tentative date:	
1		10-Apr-2021	Guest speaker report
	17-Apr-20		
21		Songkran Holiday	
•	24-Apr-20		
21		Paper Presentation & Progress Report due	
26-Apr-20	-	NLP Application 2 (Guest); Tentative date:	Overt and alice is a series of
21	21	1-May-2021	Guest speaker report
3-May-20	8-May-20	Project Procentation due	
21 10 May 2		Project Presentation due	
10-May-2	15-May-2	Final Evam Wook (10.24 May): No Final Evam	
021	021	Final Exam Week (10-24 May); No Final Exam	

<u>การส่งงานสาย</u>

การส่งงานสายเกิน 5 นาทีหลังจากหมดกำหนดส่งจะไม่ได้คะแนนในทุกกรณี

<u>เกณฑ์การวัดผล</u>

Assignments 45% (4% each for HW, 2.5% each for guest report) Midterm 25% Project 30%

<u>การตัดเกรด</u>

- > 80% A
- > 75% B+
- > 70% B
- > 65% C+
- > 60% C
- > 55% D+
- > 50% D
- < 50% F

หนังสือเรียน

ไม่มีหนังสือเรียนบังคับ

หนังสือแนะนำ

Dan Jurafsky and James H. Martin, *Speech and Language Processing (3rd ed. draft)*, https://web.stanford.edu/~jurafsky/slp3/

Course Github

https://github.com/ekapolc/NLP 2021

Facebook Group

https://web.facebook.com/groups/717005282521866