



# Syllabus

自然語言處理與網路應用 | NLP and Web Applications

**Main Instructor:** Shu-Kai Hsieh

**Office:** 樂學館 #307

**Lecture:** Thur. 14:20-17:10

**Office hours:** by appointment

**Class room:** 共 402

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## Course Description

👉 Toward a front-end web development + NLP model deployment bootcamp with React and Python

🐱 For NLP guys, turn your models into production-ready models

# Enrollment

**Prerequisite(s):** Fundamental Python

**Recommended Preparation:** course work or background of NLP is advisable, not mandatory

## Readings



僅供參考

### Recommended References

Aa Name	≡ Author	≡ Publisher	≡ Year
<u><a href="#">Javascript: The Definitive Guide</a></u>	David Flanagan	O'Reilly	2020
<u><a href="#">Learning React</a></u>	Alex Banks and E.Porcello	O'Reilly	2020
<u><a href="#">Learning Web Design</a></u>	J. Robins	O'Reilly	2018
<u><a href="#">Speech and Language Processing (3rd ed. draft)</a></u>	Jurafsky and Martin	<u><a href="https://web.stanford.edu/~jurafsky/slp3/">https://web.stanford.edu/~jurafsky/slp3/</a></u>	2022

## Course Schedule



Toward a front-end web development + NLP model deployment bootcamp with React and Python

### Schedule

Aa Name	# Dates	⌚ Type	☰ Topic	≡ Note
<u><a href="#">Week 1</a></u>	908	<u><a href="#">lecture</a></u>	<u><a href="#">Orientation</a></u>	

Aa Name	# Dates	Type	Topic	Note
<u>Week</u> 2	915	lecture	Streamlit Web app with Python	
<u>Week</u> 3	922	lecture	Streamlit Web app with Python	
<u>Week</u> 4	929	lecture	NLP models Streamlit	Assignment #1 (10/13 due)
<u>Week</u> 5	1006	lecture	CSS HTML	
<u>Week</u> 6	1013	lecture	DOM Javascript	
<u>Week</u> 7	1020	lecture	Advanced Javascript	Assignment # 2 (11/03 due)
<u>Week</u> 8	1027	TA.lab	React	
<u>Week</u> 9	1103	TA.lab	React	
<u>Week</u> 10	1110	TA.lab	React	
<u>Week</u> 11	1117	Talk	React.Advanced	Assignment # 3 (12/01 due)
<u>Week</u> 12	1126	Talk	Web app for Formosan Languages	改到 11/28 週六 下午 14:20 線上 上課 Assignment # 4 (12/08 due)
<u>Week</u> 13	1201	lecture	NLP models Tensorflow.js	
<u>Week</u> 14	1208	lecture	NLP models React.Advanced Tensorflow.js	

Aa Name	# Dates	Type	Topic	Note
 Week 15	1215	Discussion	Deployment	Proposal 報告
 Week 16	1222	Presentation		期末報告展演
 Week 17	1229			繳交期末報告

## Grading

### Breakdown

Participation: 15%

Assignments : 40% ( $10\% * 4$ )

Final Project: 45%

### Assignment Submission

4 份大作業，每週小作業(加分用)，一份期末專案。

### Late Assignments

除有正當理由，不接受遲交作業。



### 請勿抄襲 | Plagiarism

請遵守相關學術倫理規定。有抄襲剽竊事項，不計分數並依照校規處理。



### 期末報告 | Term Project

以實作 web app 為主，需使用到自然語言處理成分。