## 106 學年第 1 學期 機器學習概論 Introduction to Machine Learning 課程綱要

課程名稱:(中文)機器學習概論							<b> </b> 課單位	資工.	系			
(英文)Introduction to Machine Learning							、久課號	DCP1	241			
授課教師: 鄭昌杰 荊宇泰												
學分數		3	必/選修	芝	医修	開	<b>肩課年級</b>	3				
先修科目或先	備能力	:										
Linear algebra, statistics, probability, and computer programming												
Imear algebra, statistics, probability, and computer programming   課程概述與目標:												
This course introduces a detailed and focused treatment of the most important machine learning approaches used in predictive data analytics, covering both theoretical concepts and practical applications. Technical and mathematical material is augmented with explanatory worked examples, and case studies illustrate the application of these models in the broader business context.												
名、作者、出	科書(請註明書 作者、出版社、 Machine Learning for Predictive Data Analytics," MIT Press, 2015.											
			分配時數									
單元主題			内容綱要	講	受 万	範	習作	其他	備註			
Introduction			9									
Information-based Learning				3								
Similarity-based Learning				6								
Probability-based Learning				12	2							
Error-based Learning				9								
Evaluation				3								
Case Study				12	2							
教學要點概述	:											
1.學期作業、考試、評量 4-6 homework: 50% Term projects: 50%												
2.教學方法及教	数學相關	<b>都配合事項</b>	(如助教、網站頭	<b>遠書</b> 及	資料	車等)						
師生晤談	排定時間地點					連絡	 方式					

By a		By appo	ointment	EC444 and EC701	yte@cs.nctu.edu.tw chengchc@cs.nctu.edu.tw					
   每週進度表										
週次	次 上課日期		課程進度、內容、主題							
1			Machine Learning for Predictive Data Analytics							
2			Data to Insi	ights to Decisions	Decisions					
3										
4			Information	n-based Learning						
5			Similarity-b	pased Learning						
7		Probability-based Learning								
11			Error-based Learning							
14			Evaluation							
15			Case Study							

※ 請同學遵守智慧財產權觀念及勿使用不法影印教科書。

## 備註:

- 1. 其他欄包含參訪、專題演講等活動。
- 2. 請同學遵守智慧財產權觀念及勿使用不法影印教科書。

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