顺序	课程	课程内容	学习日期
1	2021 机器学习相关规定		
2	第一节(上) - 机器学习基本概念简介		
3	(下) - 深度学习基本概念简介		
4	Google Colab教学		
5	Pytorch 教学 part 1		
6	Pytorch 教学 part 2 (英文有字幕)		
7	作业说明 HW1 slides		
8	(选修)To Learn More - 深度学习简介		
9	(选修)To Learn More - 反向传播		
	(Backpropagation)		
10	第二节 机器学习任务攻略		
11	类神经网络训练不起来怎么办(一) 局部最小值 (local minima) 与鞍点 (saddle point)		
12	类神经网络训练不起来怎么办(二) 批次 (batch) 与动量 (momentum)		
13	类神经网络训练不起来怎么办(三) 自动调整 学习率 (Learning Rate)		
14	类神经网络训练不起来怎么办(四) 损失函数 (Loss) 也可能有影响		
15	类神经网络训练不起来怎么办 (五) 批次标准 化 (Batch Normalization)		
16	(选修)To Learn More - Optimization for Deep Learning (1 2)		
17	(选修)To Learn More - Optimization for Deep Learning (2-2)		
18	(选修)To Learn More - Classification		
19	(选修)To Learn More - Logistic Regression		
20	作业说明 HW2中文低画质版		
21	作业说明 HW2-英文有字幕高清版		
22	第三节 卷积神经网络(CNN)		
23	自注意力机制(Self-attention)(上)		
24	自注意力机制 (Self-attention) (下)		
25	(选修)To Learn More - Unsupervised Learning - Word Embedding		
26	(选修)To Learn More - Spatial Transformer Layer		
27	(选修)To Learn More - Recurrent Neural Network		
28	(选修)To Learn More - Graph Neural Network(1 2)		
29	(选修)To Learn More - Graph Neural Network(2_2)		

30	作业说明 HW3 中文低画质	
31	作业说明 HW3 英文高画质有字幕	
32	作业说明 HW4-中文低画质版	
33	作业说明 HW4-英文无字幕高清版	
34	第五节 Transformer (上)	
35	Transformer (下)	
36	(选修)To Learn More - Non-	
	Autoregressive Sequence Generation	
37	作业说明 HW5 中文 + Judgeboi讲解	
38	作业说明 HW5 slides tutorial -英文版机翻	
39	作业说明 HW5 code tutorial -英文版机翻	
40	第六节 生成式对抗网络(GAN) (一) – 基本概念介紹	
41	生成式对抗网络(GAN) (二) – 理论介绍与 WGAN	
42	生成式对抗网络(GAN) (三) – 生成器效能评估与条件式生成	
43	生成式对抗网络(GAN) (四) – Cycle GAN	
	(选修)To Learn More - Unsupervised	
44	Learning - Deep Generative Model (Part I)	
45	(选修)To Learn More - Unsupervised Learning - Deep Generative Model (Part	
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46	(选修)To Learn More - Flow-based	
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48	作业说明 HW6 英文版高画质有字幕	
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53	自编码器 (Auto-encoder) (上) – 基本概念	
54	自编码器 (Auto-encoder) (下) – 领结变声器	
55	(选修)To Learn More - BERT and its family - Introduction and Fine-tune	
	(选修)To Learn More - ELMo, BERT, GPT,	
56	XLNet, MASS, BART, UniLM, ELECTRA,	
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57	(选修)To Learn More - Multilingual BERT	

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80 (选修)To Learn More - Proximal Policy Optimization (PPO)	
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