	Monday	Tuesday	Wednesday	Thursday	Friday
Wk	Orientation	Foundations	AI + Ethics	AI + Medicine	AI + Business + Robots
1		, T	> 511: 10 I:		S 5.1. 10 II
AM		<ul><li><u>➤ Consciousness Theory</u></li><li>On Intelligence w Jeff Hawkins</li></ul>	➤ Ethical Paradigms - Hitchhiker's Overview	➤ AI in Medicine ➤ Medicine's Future w AI	➤ Ethical Paradigms - Mechanic Turking
		- Hard problem of consciousness	- Right, Good, Just (Locke,	Guest Speak	- <u>Wechanic Turking</u>
		Video w David Chalmers	Hume)	Case Study / Guest	
		- David Chalmers Consciousness	- Theory Summary	Speaker: Covid Vaccine	➤The Business future of AI
		paper	<u></u>	Discovery. AI was a key	- Boston Dynamics Dancing
		- Stanford Encyclopedia	➤ The Alan Turing Institute – Al	part of <u>COVID vaccine</u>	Robots
		<u>Consciousness</u>	Ethics	research and research into	
			- Facebook Social Responsibility	effective existing drugs or	
		➤ Intelligence Theory	- Timnet Gebru, Google	repurposing drugs. One	
		- Intelligence Overview w Deary	- Algorithmic Ethics in ML w	source that many research	
		- On measure of Intelligence -	Michael Kearns	uses for drug-related	
		<u>Chollett</u>	S 2: - 1	datasets is	
		- A Thousand Brains – Jeff Hawkins	➤ Bias Fundamentals		
		➤ <u>Network Neuroscience Theory</u> - <u>Neuroscience Differences</u>	➤ Algorithm <u>Bias</u> ➤ Chatbot bias (MIT)		
		- Neuroscience Differences	Chatbot bias (Mill)		
		Exercise: ML w Random Forest	> Exercise: Graphing	➤ Exercise: Feature	➤ Exercise: Geocodes
		- rF Classic approach overview	0	Engineering	
Wk	Frameworks	Foundations	AI + Ethics	AI + Medicine	AI + Surveillance
1	➤ What is AI and ML Overview?	► AI Fundamentals Review	➤ Bias structure	≻ <u>AI in Medicine</u>	➤ Surveillance
PM	- Basic Concepts	- Brookings Institute AI Overview		- <u>Covid-19</u>	
	- MIT ML Overview	- <u>Hitchhikers Al Guide</u>	➤ Neural Networks 101	- Al drug discovery	
	- <u>Understanding ML Textbook</u>		- Neural Net Interactive	- Al Mental Health	
		➤ Machine Learning Tools	- <u>Neural Networks Theory</u>		
	➤ Importance Vectors	<ul><li>Algorithms</li><li>Machine Learning Project Workflow</li></ul>	- <u>Neural Networks Images</u>		
	<ul><li><u>Personal Vectors</u></li><li>Societal Vectors (IBM)</li></ul>	- <u>Iviacrime Learning Project Workhow</u>			
	- Existential Impacts (Elon Musk)	➤ Manual ML Walkthrough w NASA	➤ MyAnalysis: Accuracy	► MyAnalysis: Drug Data	➤ MyAnalysis: Weekly Recap
	<u>Existential impacts</u> (Lion Widsk)	Helicopter Exercise	NiyAllarysis. Accuracy	WiyAllarysis. Drug Data	Weekly Recap
		·	➤ Data Set: Image MNIST	➤ Data Set: <u>Drug datasets</u>	➤ Data Set: Facial Data
	MyAnalysis: Frameworks	<b>≻MyAnalysis:</b> Confusion Matrix			
	-		➤ Exercise: TensorFlow Image	➤ Exercise: Drug Discovery	➤ Exercise: Facial Recognition
	Exercise: Exploring Data	➤ Exercise: TensorFlow Image	Classification with		
		Classification Basics with	<u>Convolutions</u>		
		Confusion Matrix			

Syllabus: 2-week intensive course on machine learning.

Week 1 – Foundations with walk through ML examples. Not all links populated on purpose. <a href="mailto:b.hogan@snhu.edu">b.hogan@snhu.edu</a>