		Wa	ahlkursbesch	ire	ibung Somme	erse	emester 2020)	
Titel	Using Machine Learning in the Creative Problem								
Cluster Title DO 07	Solving Prod								
Cluster Title PO 07	MEP9 Advanced Informatics								
Cluster Title PO 2012									
Cluster Title PO 2014									
Erster Kurstermin	25./26.4, Restplatzbelegung bis zum 20.4. direkt bei der Dozent_in. Virtur Klassenraum. Die Teilnehmenden erhalten vor Beginn weitere Infos.							er —	
Kursdaten	Credit Points 5 credit points								
	Workload/Semester		125-150 h						
	Kursdauer/Woche	4 SWS							
	Teilnehmerzahl nach CNW 20								
	Minimale Teilnehmerzahl 8								
	Kurszeitraum 06.0421.6.20, Präsentation 810.7.20								
	Der Kurs findet statt am		Sa/So (Block-Kurs), jeweils 9:30 – 17:0						
	Kursfrequenz		wöchentlich		2-wöchentlich		Als Block	k x	
	Kurszeitraum****		Block 1		Block 2		Block 3	3	
	(Block = 90 min)		8:30		10:15		12:00)	
			Block 4		Block 5		Block 6		
			14:15		16:00		17:4	_	
	Unterrichtssprache				English	X	Germar	ſχ	
	Geeignet für Stud	er Studiengän	ge	DM	X	AG			
					IMD	X	MP		
					SMP		IW (BA)		
					OJ/WJ/OK		KMI		
Inhalt(e):	Design		Informatics / Technology	x	Economy / Business		Culture	Э	
Zeitraum falls Block- Kurs	25./26.4., 23./24	.5., Präse	entation 810).7	.20				
M									
Kursvorstellung Dozentln Name(n)	Meghan Kane								
Dozentin Name(n)		moil com							
	kanemeghan@gmail.com								
Kontakt -Prof. @ fbmd	<u> </u>								
Unterrichtsform	Vorlesung		Vorlesung + Seminar	X	Seminar		Project		
Inhalt des Kurses	In this project focused course, students will learn how to use machine								
	learning (ML) as a tool for solving problems when developing creative								
	digital products. The class will explore a variety of ML applications,								
	cover basic ML conceptual foundations, and provide an introduction to								
	industry standard ML tools such as TensorFlow. Students will develop a better intuition of when it's practical to use ML and when it's not.								
	By the end of the class, students will present a project that uses ML for								
	at least one of its features. Their project should demonstrate a basic								

understanding of ML core concepts, a more in-depth understanding of their chosen ML application, and an ability to apply it. Students can choose a project that extends an example project from class or build their own original project. There will be time during class for students to have guidance on coming up with an idea and building their project

Some example ML applications and underlying basic foundations we

throughout the course.

will explore are:

	 Computer vision to perform image/video classification and object detection Natural language processing to extract meaning from text Activity classification of sensor data Style transfer to transform images into your favorite artist's style 								
Prüfungsart	Hausarbeit	Arbeit X	Papier	Anderes					
Eignung für	X Anfängerkurs X Fortgeschrittenen-Kurs Profi-Kurs								
Teilnahme- bedingungen	Students should feel comfortable reading and writing basic code in one language*. A basic introduction to programming course in the past is sufficient to take this course. *Ideally JavaScript, Python, or Swift, because these are supported best by the current ML industry standard tools.								
Info zum Dozenten	Meghan Kane is a software engineer and researcher based in Berlin who specializes in machine learning. She has worked as a software engineer at places such as the MIT Media Lab, SoundCloud, Novoda, and as a freelancer. She has taught workshops and given talks in various countries on software development and is the author of the "Machine Learning for iOS" free Udacity course. Originally from the USA, she studied mathematics and computer science at MIT. She has lived in Germany for 3 years and speaks B2 level German. While the class will technically be in English, communicating in a mix of English and German can be done if needed.								
Weitere Hinweise	Der Kurs wird aufg können sich hierdu	rund der Pandemie prä irch verändern.	senzfrei durch	geführt. Inhalte					