Department	International College of Liberal Arts		
Semester	Spring 2025	Year Offered (Odd/Even/Every Year)	Every Year
Course Number	DATA/QREA280		
Course Title	AI Discovery: Foundations & Discovery		
Prerequisites	DATA/SOCI/QREA265 Science, Society & Self		
Course Instructor	RICKETTS John	Year Available (Grade Level)	2
Subject Area	Data Science	Number of Credits	3
Class Style	Lecture	Language of instruction	English

(NOTE 1) Depending on the class size and the capacity of the facility, we may not be able to accommodate all students who wish to register for the course

	AI Discovery provides a comprehensive introduction to the fundamentals of Artificial Intelligence.
	The course is divided into two main phases: foundational learning & student-directed discovery.
Course Description	In the first phase, students will learn core AI concepts, techniques, & tools.
	The second phase allows students to explore AI capabilities through self-directed projects, with findings shared & discussed in class to build a collective repository of knowledge & applications.
	This undergraduate curriculum in AI consists of two main courses: AI Discovery & AI in Action.
	The combined courses provide students with a strong foundation in AI fundamentals, foster student-directed exploration of AI capabilities, and apply these skills to real-world problems. The curriculum is suitable for students with both technical & liberal arts backgrounds, ensuring an interdisciplinary approach to AI usage and application.
	After completing students will be able: 1. To assess the importance & focus upon AI in any given setting. 2. Utilize AI for personal & professional use.
	3. Work in interdisciplinary & diverse teams to deliver capability and value.
	Learning Goals: To equip students with the knowledge, skills, and confidence to effectively integrate AI into various career paths and interdisciplinary contexts. - Better understand AI principles and techniques
Class plan based on course	- Better understand AI's impact on society and ethics - Better skilled at using AI tools and frameworks
evaluation from previous	- Better skilled at independent research and exploration in AI - Better skilled at sharing knowledge and collaborating in teams
academic year	- Better skilled at applying AI to real-world problems - Better skilled at project management and communication
	- Better skilled at working in interdisciplinary and diverse teams
	- Better skilled at producing tangible AI-driven outcomes - More adept at critical thinking and creative problem-solving in AI contexts
	Integration & Interdisciplinary Approach: Both courses emphasize collaboration & knowledge sharing, and are designed to be taken together. Al Discovery focuses on building a strong foundation & fostering a community of learners exploring Al's potential. Al in Action takes this foundation into the real world, where students apply their skills to make a tangible impact. The interdisciplinary nature of the curriculum ensures that students from both technical & liberal arts backgrounds can contribute meaningfully, leveraging their diverse skills & perspectives.
	By the end of this curriculum, students will have not only a deep understanding of AI principles but also practical experience in applying AI to solve real-world problems. This prepares participants for careers in various fields that increasingly rely on AI technology, to drive innovation and/or sustainability.
	Commercial & Academic
Course related to the instructor's practical experience (Summary of experience)	
	- Understand the basic principles & techniques of AI.
	- Develop proficiency in AI tools & frameworks Foster independent research & exploration in AI.
Learning Goals	- Create a collaborative environment for sharing AI knowledge & co-creating discoveries.
Louining doars	

:01 4 6: 1 6 1:	000, 000, 000,
iCLA Diploma Policy	DP1/DP2/DP3/DP4

- iCLA Diploma Policy
- (DP1) To Value Knowledge Having high oral and written communication skills to be able to both comprehend and transfer knowledge
- (DP2) To Be Able to Adapt to a Changing World Having critical, creative, problem-solving, intercultural skills, global and independent mindset to adopt to a changing world
- (DP3) To Believe in Collaboration Having a disposition to work effectively and inclusively in teams
- (DP4) To Act from a Sense of Personal and Social Responsibility Having good ethical and moral values to make positive impacts in the world

	Problem-Based L	earning/Flipped Classr	oom/Discussion, Debat	e/Group Work/	Presentation/	/Workshop, Fieldwo	ork
Active Learning Methods							
	As required						
More details/supplemental information on Active Learning Methods	AS TEQUITED						
	May require add	litional student subscri	ption to a current AI	model: typical	prices are \$2	0/month	
Use of ICT							
Contents of class preparation and review	As required			Hours expected to be spent preparing for class (hours per week)	2 hours	Hours expected to be spent on class review (hours per week)	3 hours
Feedback Methods	As required						
			Grading Criteria				
Grading Methods		Grading Weights		Grading Conten	t		
In class participation		40%					
In class quizzes		30%					
Team Project		30%					
		!					
Required Textbook(s)	We will make ou	r own reading materials	/repository - the fiel	d is moving ver	y quickly		
Other Reading Materials/URL	As required						
Plagiarism Policy	Heavy AI use						
Other Additional Notes (Outline crucial policies and info not mentioned above)	None						

Recks 1-4: Foundations of Al		Class Schedule
Items	Class Number	
Necks 1-4: Foundations of Al		
Reaks 1-4: Foundations of AI Introduction to AI & Its history	Class 1	
Introduction to AI & its history Reeks 1-4: Foundations of AI	01433 1	
Introduction to AI & its history Reeks 1-4: Foundations of AI		
Weeks 1-4: Foundations of Al		
- Machine learning basics (supervised, unsupervised, reinforcement learning) - Neural networks & deep learning Reeks -4: Foundations of Al	Class 2	
- Machine learning basics (supervised, unsupervised, reinforcement learning) - Neural networks & deep learning Reeks -4: Foundations of Al		
- Machine learning basics (supervised, unsupervised, reinforcement learning) - Neural networks & deep learning Reeks -4: Foundations of Al		Weaks 1-4: Foundations of Al
Reeks 1-4: Foundations of Al - Machine learning basics (supervised, unsupervised, reinforcement learning) - Neural networks & Geep learning		- Machine learning basics (supervised, unsupervised, reinforcement learning)
- Machine learning basics (supervised, unsupervised, reinforcement learning) - Neural networks & deep learning Weeks 1-4: Foundations of AI - Natural language processing - LLM Weeks 1-4: Foundations of AI - Natural language processing - LLM Weeks 1-4: Foundations of AI - Ethical & societal implications of AI - Ethical & s	Class 3	neural hothorica a deep rearring
- Machine learning basics (supervised, unsupervised, reinforcement learning) - Neural networks & deep learning Weeks 1-4: Foundations of AI - Natural language processing - LLM Weeks 1-4: Foundations of AI - Natural language processing - LLM Weeks 1-4: Foundations of AI - Ethical & societal implications of AI - Ethical & s		
- Neural networks & deep learning Neeks 1-4: Foundations of Al		Weeks 1-4: Foundations of AI
Neeks 1-4: Foundations of AI		
- Natural language processing - LLM Weeks 1-4: Foundations of AI - Natural language processing - LLM Weeks 1-4: Foundations of AI - Ethical & societal implications of AI Weeks 1-4: Foundations of AI - Ethical & societal implications of AI Weeks 1-4: Foundations of AI - Ethical & societal implications of AI Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Revenue of the progress presentations - Weekly progress presentations - Weekly progress presentations - Weekly progress presentations	Class 4	
- Natural language processing - LLM Weeks 1-4: Foundations of AI - Natural language processing - LLM Weeks 1-4: Foundations of AI - Ethical & societal implications of AI Weeks 1-4: Foundations of AI - Ethical & societal implications of AI Weeks 1-4: Foundations of AI - Ethical & societal implications of AI Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Revenue of the progress presentations - Weekly progress presentations - Weekly progress presentations - Weekly progress presentations		
- LLM Weeks 1-4: Foundations of AI - Natural language processing - LLM Weeks 1-4: Foundations of AI - Ethical & societal implications of AI - Period & societal implications of AI - Reckly progress presentations - Peer feedback sessions - Compilation of findings into a class repository Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Weekly progress presentations - Weekly progress presentations		
Weeks 1-4: Foundations of Al		
- Natural language processing - LLM Weeks 1-4: Foundations of AI - Ethical & societal implications of AI Weeks 1-4: Foundations of AI - Ethical & societal implications of AI - Ethical & societal implications of AI Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations	Class 5	
- Natural language processing - LLM Weeks 1-4: Foundations of AI - Ethical & societal implications of AI Weeks 1-4: Foundations of AI - Ethical & societal implications of AI - Ethical & societal implications of AI Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations		
- LLM Weeks 1-4: Foundations of AI - Ethical & societal implications of AI Weeks 1-4: Foundations of AI - Ethical & societal implications of AI - Ethical & societal implications of AI Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly Progress presentations - Peer feedback spessions - Compilation of findings into a class repository		
Weeks 1-4: Foundations of AI - Ethical & societal implications of AI Weeks 1-4: Foundations of AI - Ethical & societal implications of AI Blass 8 Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations	Class 6	
- Ethical & societal implications of AI Weeks 1-4: Foundations of AI - Ethical & societal implications of AI Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Weekly progress presentations	01433	
- Ethical & societal implications of AI Weeks 1-4: Foundations of AI - Ethical & societal implications of AI Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Weekly progress presentations		
Weeks 1-4: Foundations of AI - Ethical & societal implications of AI Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations		
- Ethical & societal implications of AI Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations	Class 7	
- Ethical & societal implications of AI Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations		
Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations		Weeks 1-4: Foundations of AI
Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations		- Ethical & societal implications of AI
- Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations	Class 8	
- Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations		
- Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations		
- Compilation of findings into a class repository Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations		- Weekly progress presentations
- Selection of group projects exploring AI applications - Weekly progress presentations	Class 9	
- Selection of group projects exploring AI applications - Weekly progress presentations		
- Weekly progress presentations		
VISIZE ID	Class 10	
- Compilation of findings into a class repository		
Works 5-14: Student-Directed Discovery		Works 5-14: Student-Directed Discovery
Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress proportions		- Selection of group projects exploring AI applications
	Class 11	- Peer feedback sessions
- Compilation of findings into a class repository		Oumphiacion of findings into a class repository
Weeks 5-14: Student-Directed Discovery		
- Selection of group projects exploring AI applications - Weekly progress presentations		- Weekly progress presentations
- Peer feedback sessions - Compilation of findings into a class repository	Class 12	
Weeks 5-14: Student-Directed Discovery		
- Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions	01 12	- Weekly progress presentations
Class 13 - Peer Teedback sessions - Compilation of findings into a class repository	Class 13	

Class 14	Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository
Class 15	Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository
Class 16	Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository
Class 17	Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository
Class 18	Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository
Class 19	Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository
Class 20	Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository
Class 21	Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository
Class 22	Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository
Class 23	Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository
Class 24	Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository
Class 25	Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository
Class 26	Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository
Class 27	Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository

Class 28	Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository
Class 29	Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository
Class 30	Weeks 5-14: Student-Directed Discovery - Selection of group projects exploring AI applications - Weekly progress presentations - Peer feedback sessions - Compilation of findings into a class repository