AUTONOMOUS AI COURSERA Specialization Course 1 Machine Teaching for Autonomous AI

Teaching enables AI to better acquire skills the same way that it builds skill in humans. This class is about using teaching principles to democratize AI and make it useful for real applications.

Together we will learn how TEACHING is the next era of intelligence. Things that learn need to be taught.

Course Outcomes

At the end of this course, students will be able to:

- 1.1 Describe the concept Useful Al/machine teaching
- 1.2 Explain the role of teaching in training advanced Al
- 1.3 Evaluate the benefits and detriments of leveraging human expertise in design of Al systems
- 1.4 Make an impact

Milestone 1: Identify a Problem to Solve
Submit your assignment
Complete 1 peer review

- 1.5 Differentiate between automated and autonomous decision making systems
- 1.6 Describe the limitations of automated systems and humans in real-time decision making
- 1.7 Select use cases where Autonomous Al will outperform both humans and automated systems

	Course Grading	Points	Weight
l	Quiz: Math, Menus & Manuals	6 pts	10%
	Milestone Assignment 1 : Identify a problem to solve	8 pts	10%
	Quiz : Applications for Automated & Autonomous Systems	6 pts	10%
	Quiz : The Human Factor: Evaluating autonomous Al scenarios	4 pts	10%
	Milestone Assignment 2 : Look for human decision-making	8 pts	10%
	Milestone Assignment 3 : Storytelling the Solution	10 pts	50%
ı			

		2.3 Validate your brain design against existing expertise and techniques for solving problems. Milestone Assignment Autonomous Ai will outperform both humans and automated systems Milestone Assignment Autonomous Ai will outperform both humans and automated systems Milestone Assignment Autonomous Ai will outperform both humans and automated systems Milestone Assignment Autonomous Ai will outperform both humans and automated systems Milestone Assignment Autonomous Ai will outperform both humans and automated systems Milestone Assignment Autonomous Ai will outperform both humans and automated systems Milestone Assignment Autonomous Ai will outperform both humans and automated systems Milestone Assignment Autonomous Ai will outperform both humans and automated systems Milestone Assignment Autonomous Ai will outperform both humans and automated systems Milestone Assignment Autonomous Ai will outperform both humans and automated systems Milestone Assignment Autonomous Ai will outperform both humans and automated and automated are also and automated are also and automated and automated are also are also and automated are also and automated are also and automated are also are also and automated are also are also and a		
Week 1 Introduction to Autonomous AI & Machine Teaching	Week 2 Analyzing the Problem	Week 3 Learning the Solution	Week 4 Storytelling	
Lesson 1.1: Autonomous Al - The Big Picture	Lesson 2.1: Finding the Right Problems	Lesson 3.1: Autonomous Systems	Lesson 4.1: The Value of Storytelling	
 troduction Videos 0.1 Specialization Preview - A glimpse at what you'll learn 0.2 Who is this specialization for? 0.3 What will you encounter in this course? 0.4 The Instructional Team 	Video Lecture 2.1 The "Skills Gap"	Video Lecture 3.1 Machine Learning - Algorithms that can learn Video Lecture		
	Autonomous Al in Action The invisible line on the balance sheet with NOV	Autonomous Al in Action Curve fitting with WOOD	Autonomous Al in Action Building a Drone Laboratory at Bell Flight	
	Video Lecture 2.2 The Value of the Problem	Video Lecture 3.2 Deep Reinforcement Learning - Trial and error	Reading 4.2 How to Structure Your Talk	
 Course Glossary Course Resources Discussion: The	Autonomous Al in Action The devastating effect of downtime with WOOD	Video Lecture 3.3 The Role of Strategy	Discussion Persuasive Stories	
	Discussion: The Skills Gap	Quiz 3.3b Applications for Automated and Autonomous Systems	Lesson 4.2: Writing Your Use-Case Story	
Discussion: Introduce Yourself	Lesson 2.2: The limitations of automation	Lesson 3.2: Machine Teaching: The next evolution in Al	Autonomous Al in Action A story of process improvement at PepsiCo	
Lesson 1.2: What is useful AI?	Video Lecture 2.3 An Introduction to Math, Menus, and Manuals	Video Lecture 3.3 Machine Teaching - Intelligence lives in the design	Autonomous Al in Action The internet of REALLY OLD things at NOV	
Video Lecture 1.1 Real Life Examples of Autonomous Al	2.3a Math - Making Predictable Decisions with Control Theory	Autonomous Al in Action Listening to Machines with NOV	Video Lecture 4.4 Components of Storytelling	
Reading 1.2 Explore the Basics of Autonomous Systems	2.3b Menus - Searching for the Right Decision with Optimization Algorithms	Quiz 3.5 The Human Factor: Evaluation autonomous Al scenarios Milestone 3: Standalling the Solution		
Reading 1.3 Your Mindset Profile	2.3c Manuals - The Human Factor in Expert Rules and High-Stakes Decisions	Milestone 2: Identify Autonomous Al Components to Use	Milestone 3: Storytelling the Solution ■ Submit your assignment ■ Complete 3 peer review	
Video Lecture 1.4 The Teacher's Mindset	Quiz 2.4: Math, Menus, and Manuals	 Submit your assignment Complete 1 peer review 		
Discussion: Share Your Mindset	Lesson 2.3: Finding Al Solvable Problems			
Reading 1.5 For Fun - Would you like to play a game?	Video Lecture 2.5 Interviewing Skills: The Teacher's Toolset			
	Reading 2.6 Structured Interview Questions			