

SIT799 Human Aligned Artificial Intelligence

Pass Task 1.2: AI Quiz

Overview

In week 1, we introduce you AI and it's current applications. This quiz gives you a chance to demonstrate your understanding of what you have learnt.

Part 1

For the following Machine Learning (ML) tasks, which task is a classification ML task? which task is a regression ML task? which task is a reinforcement ML task? which task is an unsupervised ML task? **Please justify your answers.**

1. A system that identifies objects in images.
2. A system that determines whether patients discharged from a hospital will be readmitted in the next month. The top 50 most probable readmission cases are selected for follow-up appointments; there is no action taken for the remaining patients.
3. A system that plays Atari games.
4. A system that identifies groups of individuals in a population based on features and other characteristics.
5. A system that predicts stock price based on social media data.
6. A system that identifies spam emails.

Part 2

For the following two AI scenarios, which scenario you think is a realistic scenario, and which one is not? **Please justify your answers.**

1. Scenario 1: Developing an AI system that can do complex brain surgery.
2. Scenario 2: Developing an AI system that can create music.
3. Scenario 3: Developing an AI system that can create art painting.
4. Scenario 4: Developing an AI system that can reason and solve complex math problems.