Assignment 1 (20 points)

**Reinforcement learning group assignment.**

Your group (maximum group size 6) is tasked with developing an approximately three-page summary document and a 15-minute lesson on Reinforcement learning (any type of RL mentioned in the [LinkedIn course](https://www.linkedin.com/learning/reinforcement-learning-foundations/)) with a practical demonstration (followed by a 5-minute Q&A). No formal lectures on October 17 and October 24, 2024. But I shall be available during class hours to discuss about the RL assignment.

Information and materials:

* You may use information from any source; however, remember that just because there is a lot of information online does not mean it is valuable.
* Try to use sources such as credible industry sources found online, library resources, etc. You are becoming the class experts on your assigned topic, so ensure your information is credible.
* Please leverage Office 365 to collaborate on creating the material (PowerPoint slides, Word doc, etc.)

To do:

1. Each member must complete the LinkedIn Learning Course on RL and upload the completion certificate.

<https://www.linkedin.com/learning/reinforcement-learning-foundations/>

2. A three-page summary document of your topic

* Explain the demonstration topic, why you chose the topic, and what type of RL learning is used. Explain related mathematical equations and mention references.
* This document should explain the concepts that cannot be included in the PowerPoint slide.

3. The final presentation must include:

* Practical demo using Jupyter Notebook/Python files.
* Presentation PPT to supplement the demonstration. YOU MUST MENTION the contribution of group members to the assignment.

Dates:

**Final Presentation Date: October 31, 2024**