

Radhakrishna Vempati

Professor Xie

CS 175

11 December 2024

For our project, we divided the work based on the two reinforcement learning models: PPO and DQN. My primary responsibility was working on the PPO model. Specifically, I wrote and tested the code for the baseline PPO model, implemented L1 unstructured pruning for PPO, and implemented random unstructured pruning for PPO. The code for the L1 and random pruning is located in the ppo-atari file within the src folder of the code directory.

Additionally, I worked on creating parameters to perform evaluation on the PPO model, as the library we used lacked some of the necessary evaluation functionality. This ensured that our evaluation methods were robust and consistent across experiments.

Beyond my individual contributions, both team members collaborated on running the model and preparing project documents. This included tasks such as drafting the proposals, writing the final report, and creating the presentation materials.