

Assignment 3 of CS260 2023 Fall

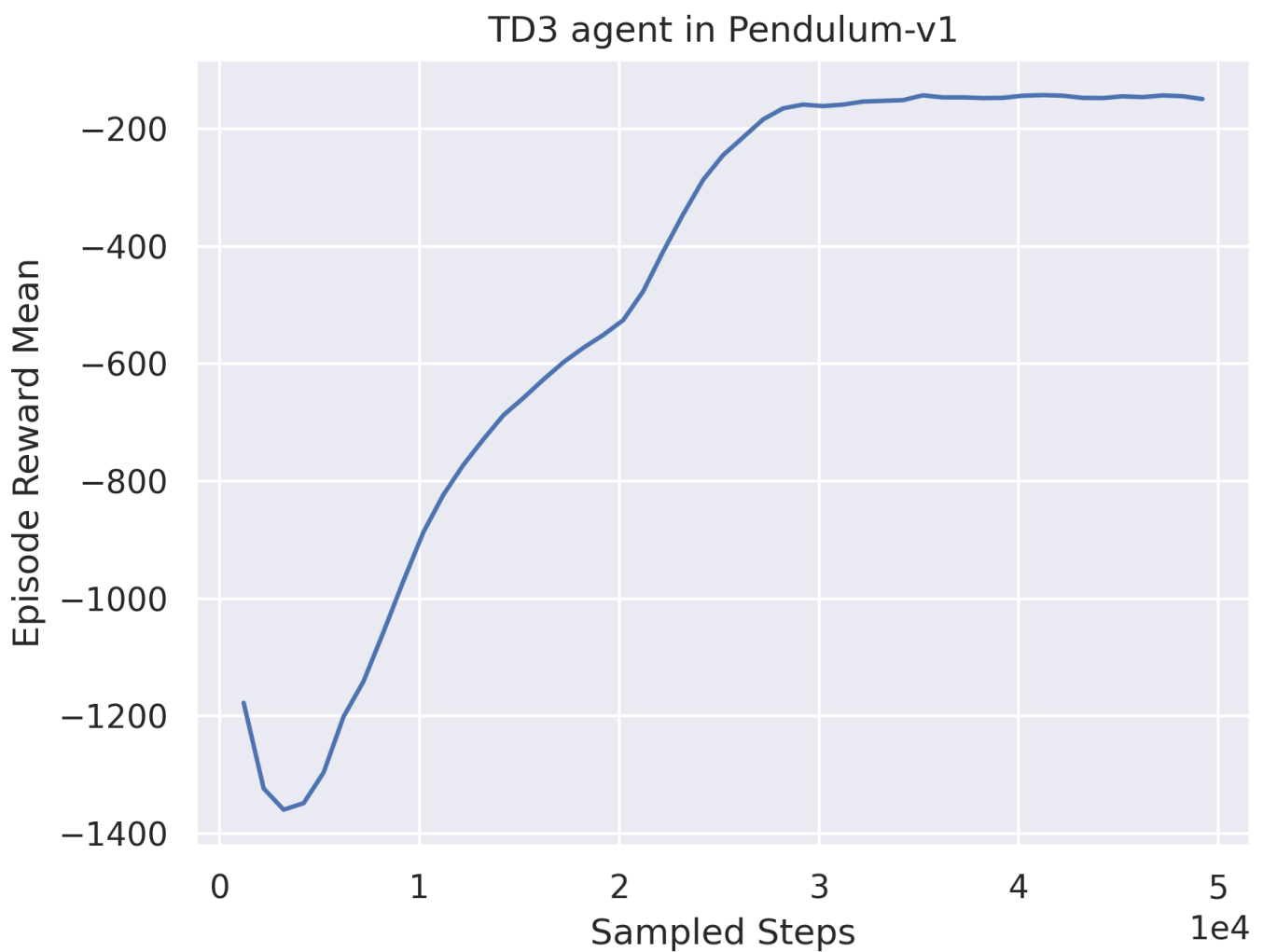
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Learning curves of TD3

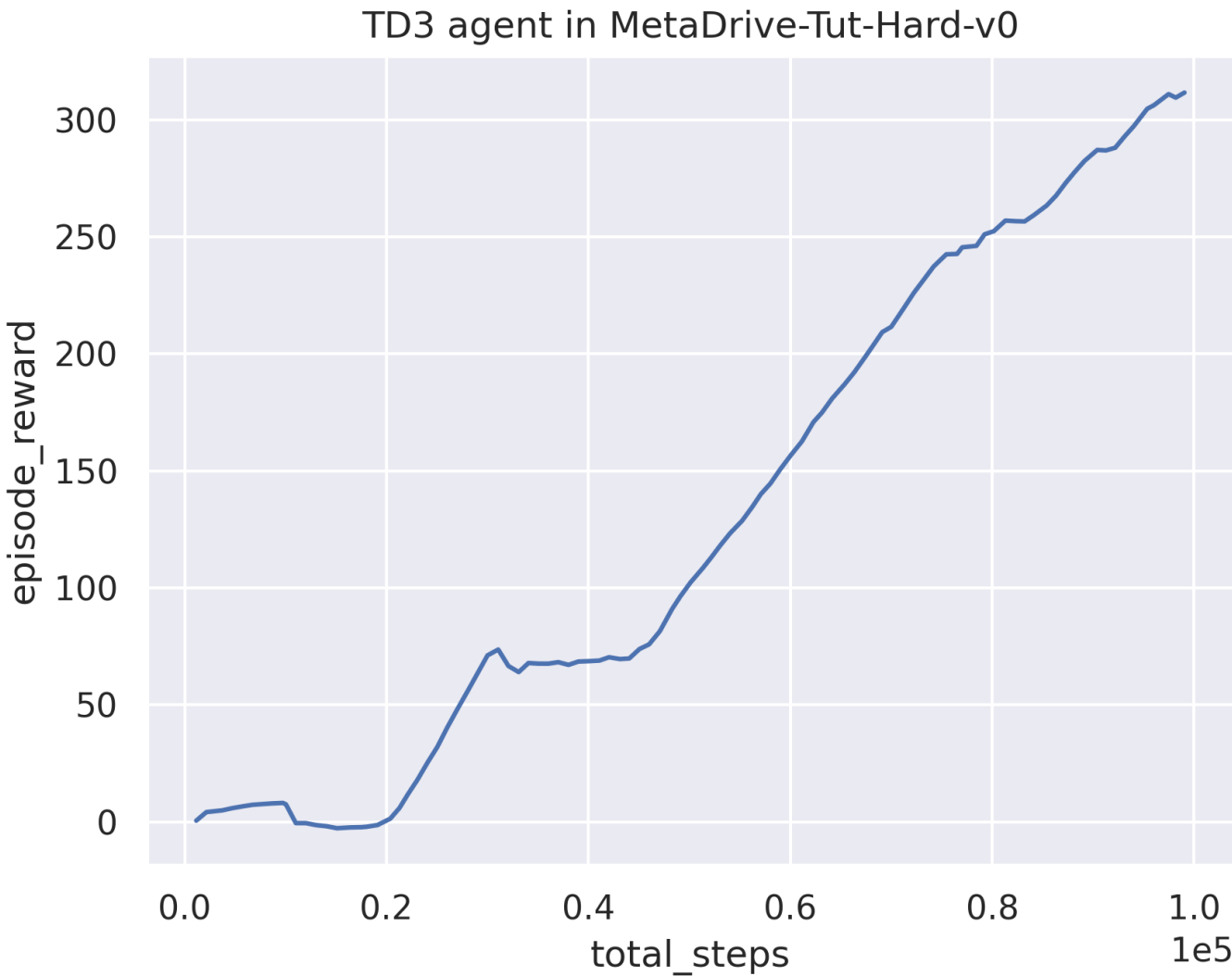
TD3 in Pendulum-v1

20 points



TD3 in MetaDrive-Tut-Hard-v0

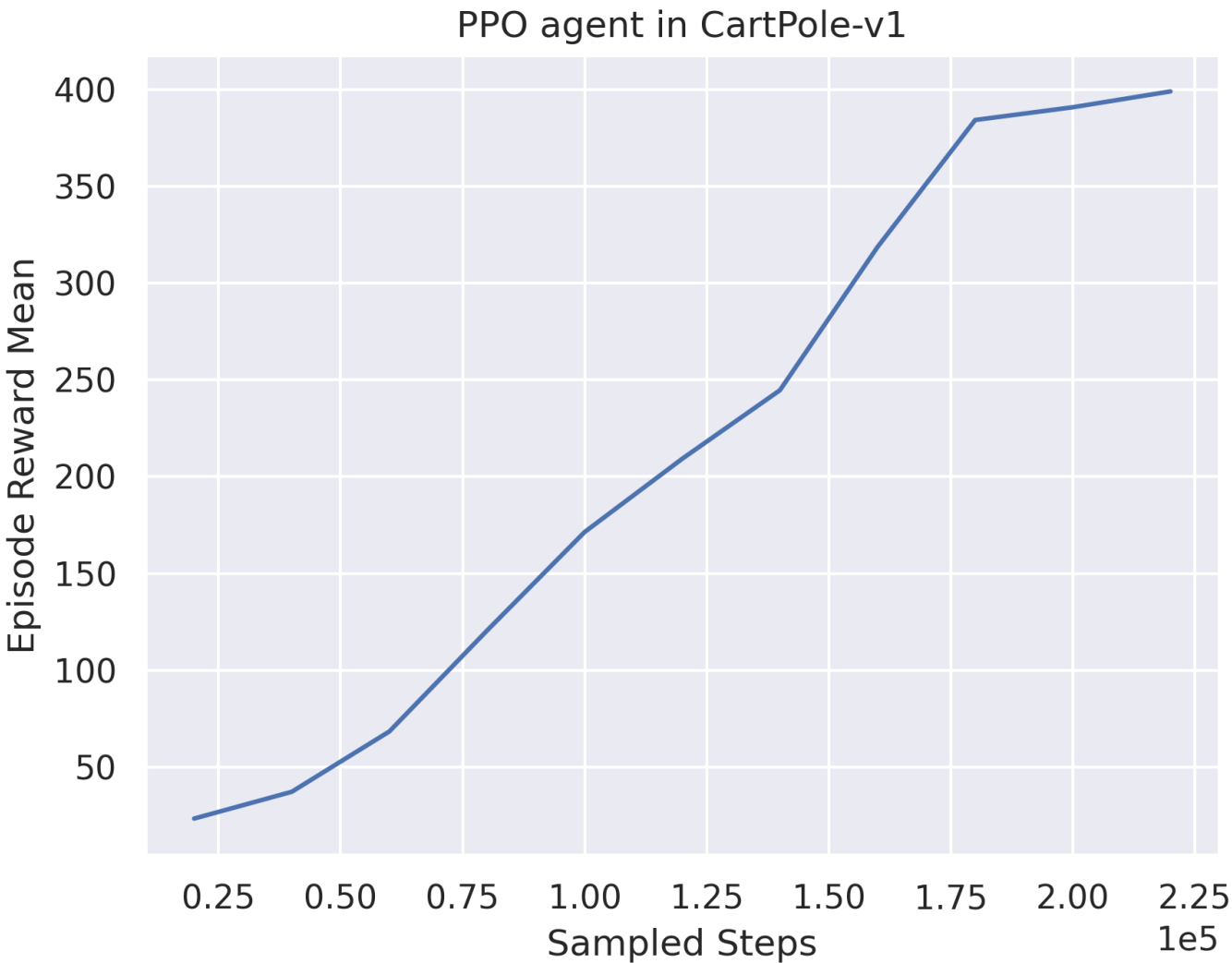
20 points



Learning curves of PPO

PPO in CartPole-v1

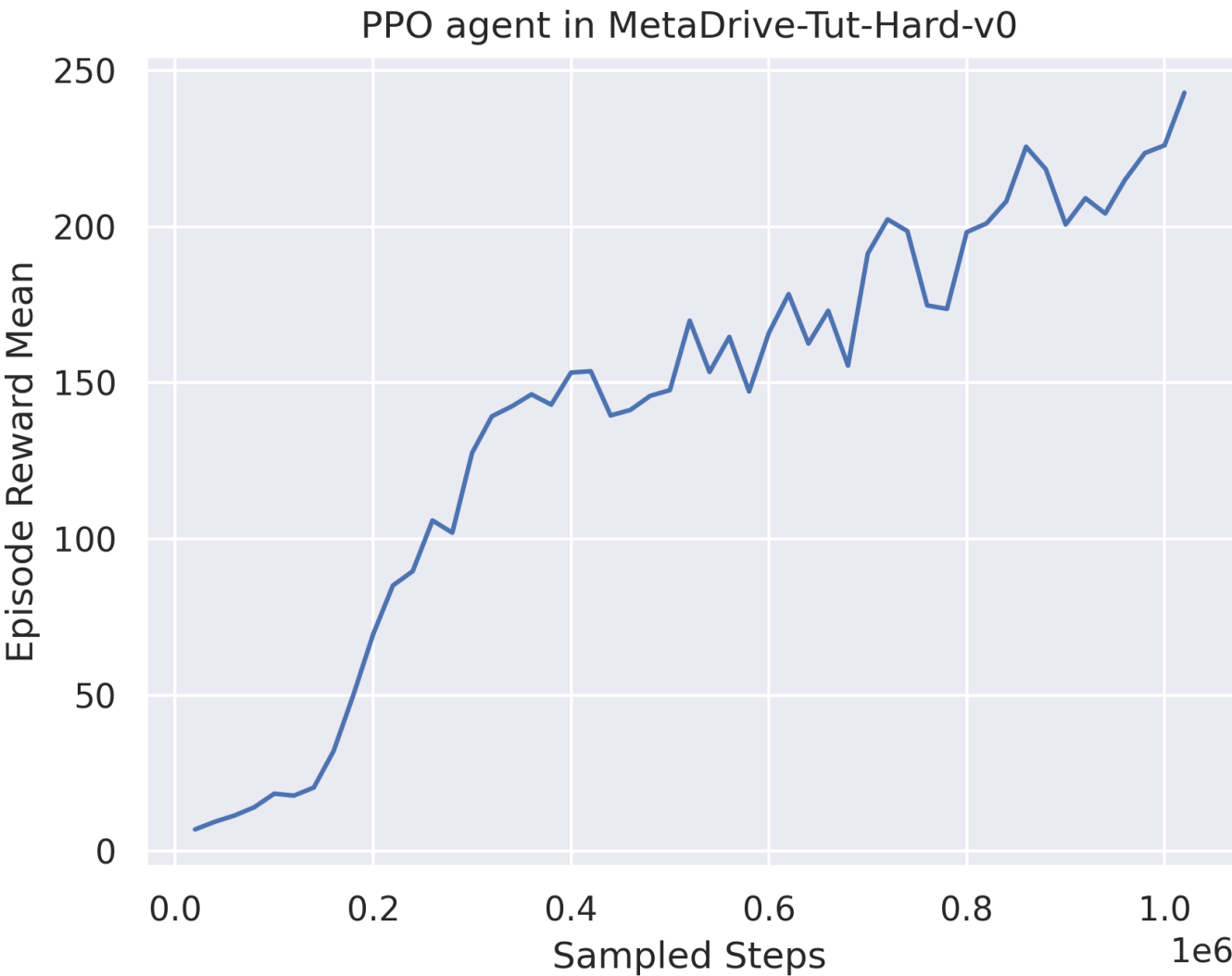
20 points

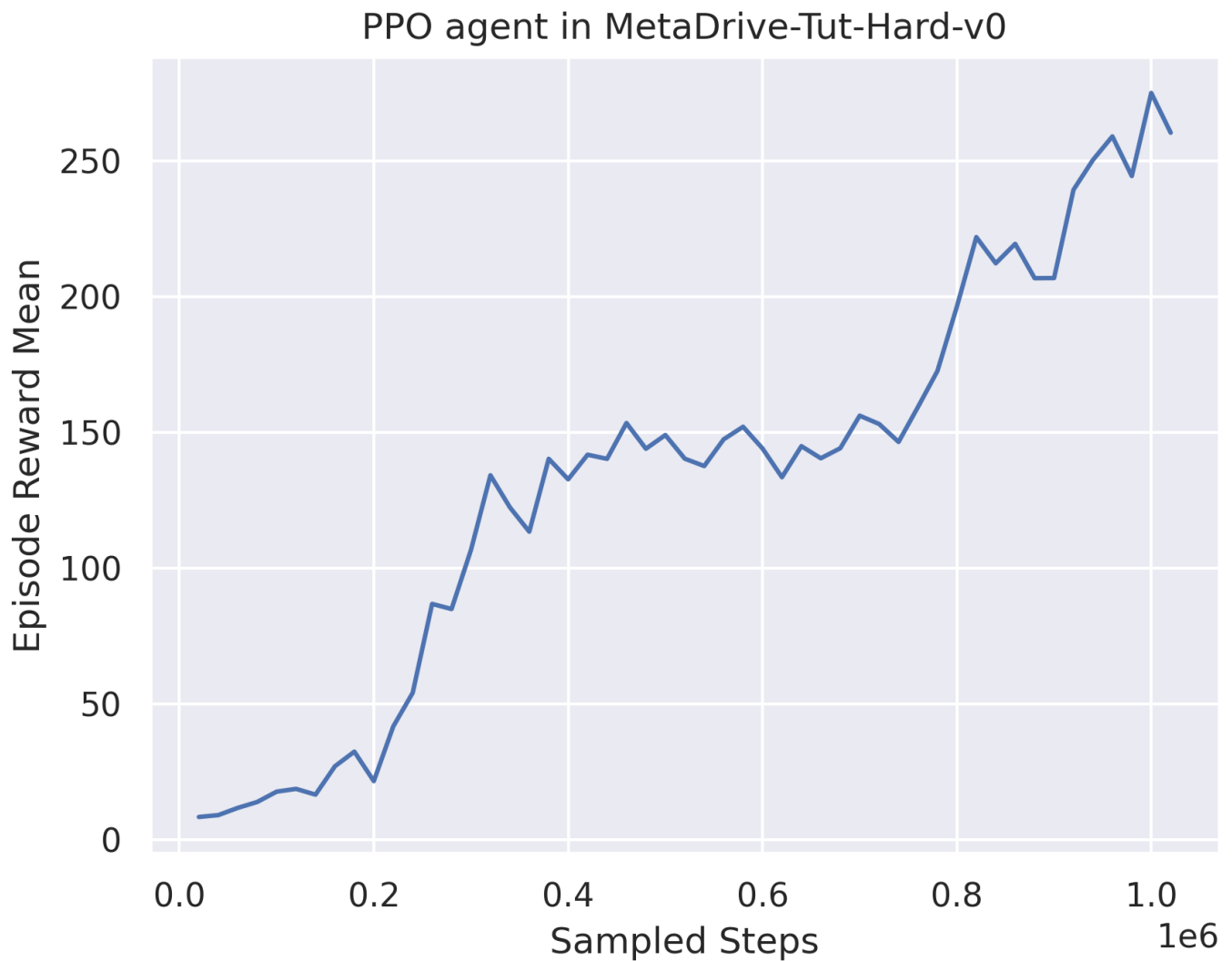


PPO in MetaDrive-Tut-Hard-v0

20 points

NOTE: I ran the metadrive hard environment for PPO multiple times. I've included two of the result graphs for this environment.





Generalization Experiment

In this section, you need to draw one figure whose X-coordinate represents "the number of training scenes" and Y-coordinate represents "the episodic reward".

We expect two lines in the figure, showing the final training performance and the test performance varying with the number of training scenes.

Choosing one algorithm, you should train agents in `MetaDrive-Tut-[1,5,10,20,50,100]Env-v0` environments and test all agents in `MetaDrive-Tut-Test-v0`.

The generalization curves

(20 points)

TD3 generalization results

