Assignment 3 of CS260 2023 Fall

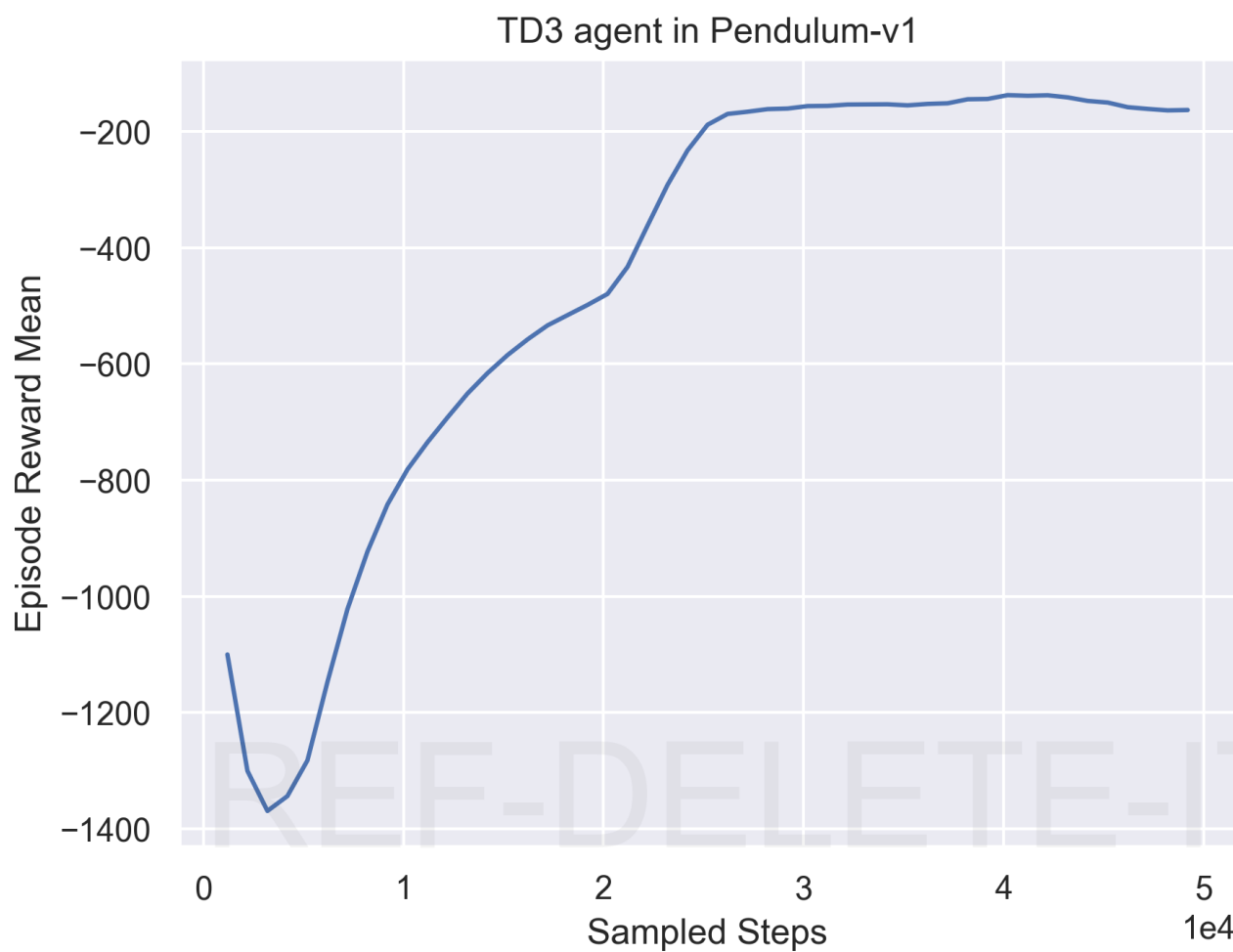**NAME:** Shaira Alam

UID: 506302126

Learning curves of TD3

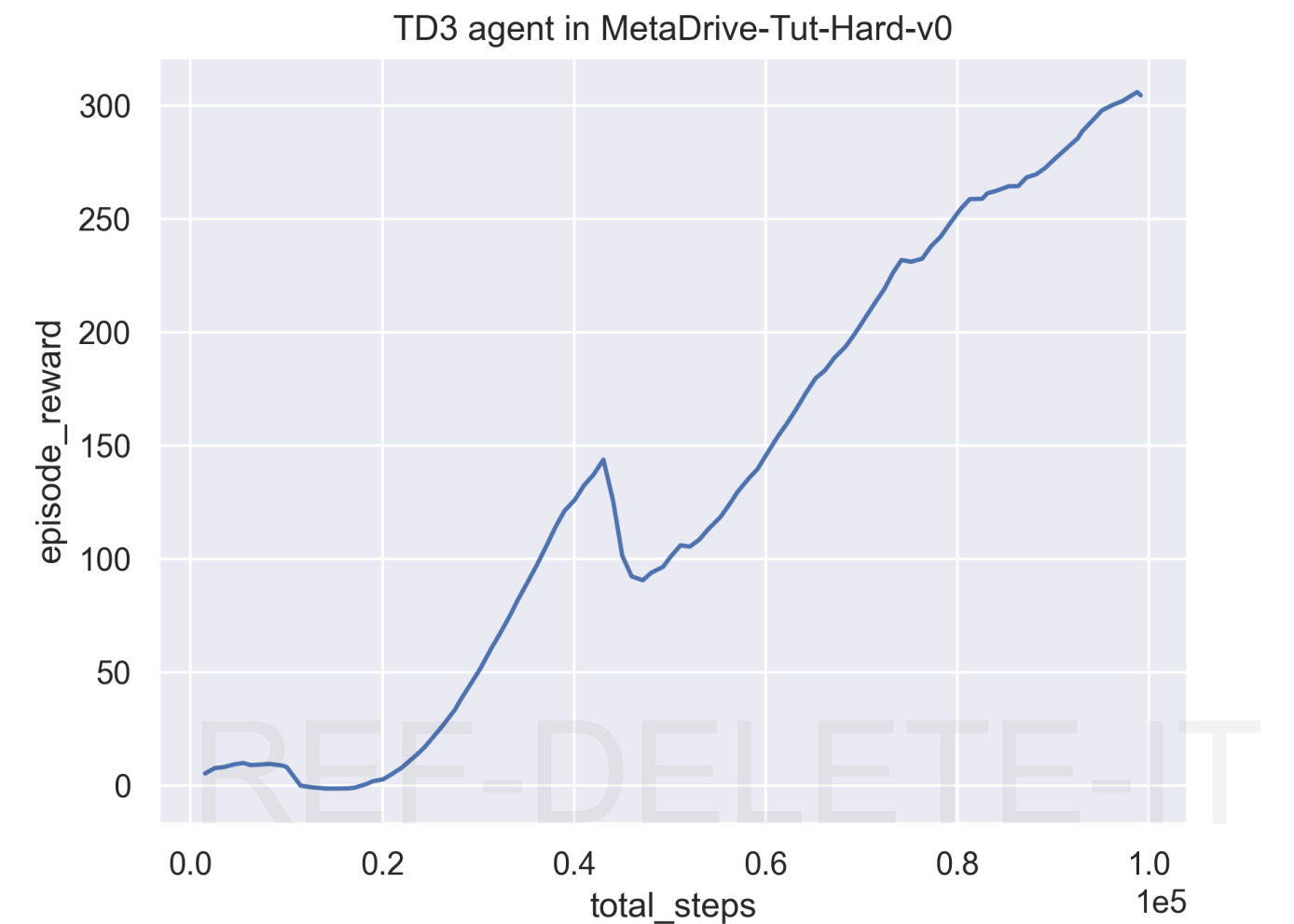### TD3 in Pendulum-v1

20 points

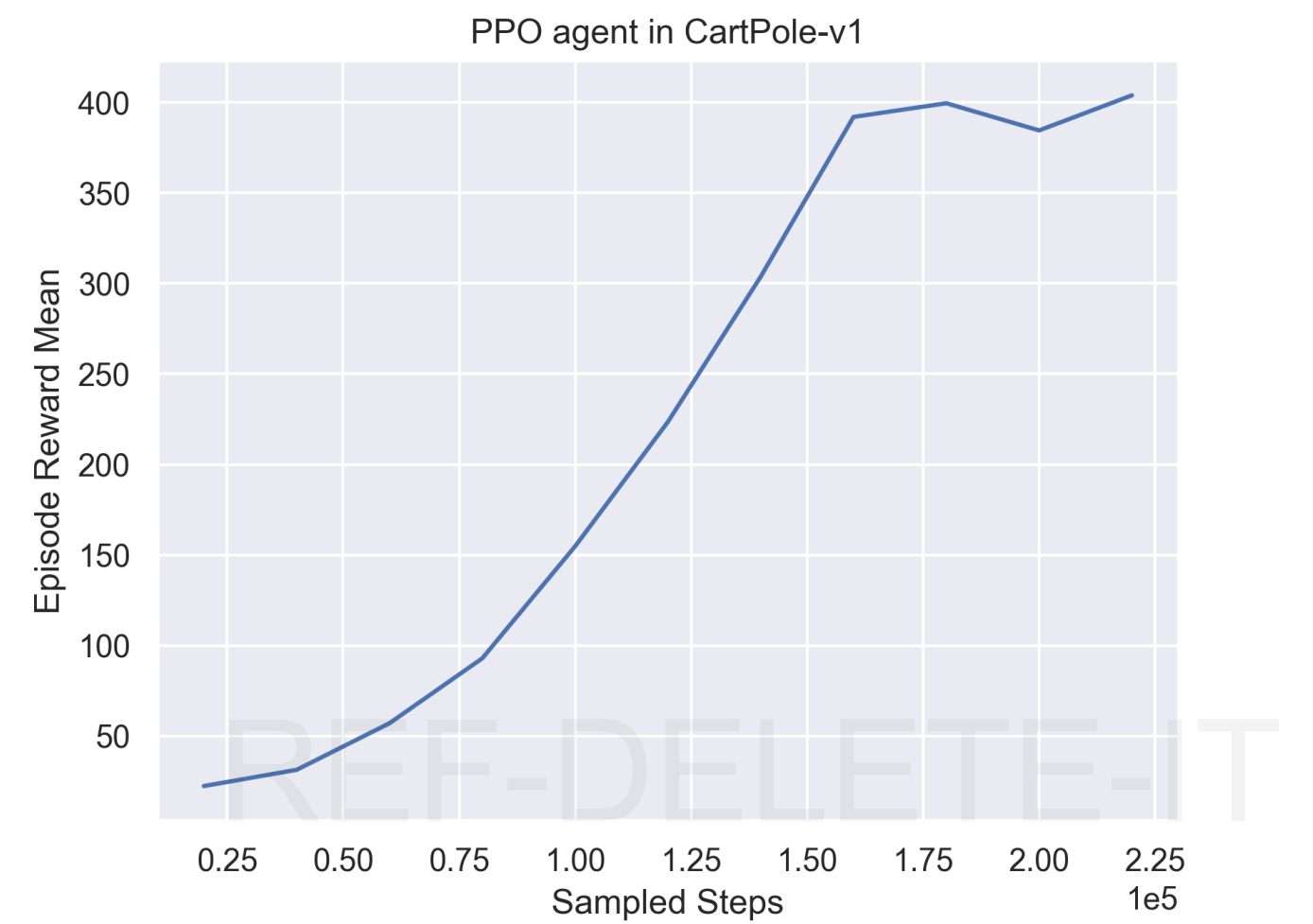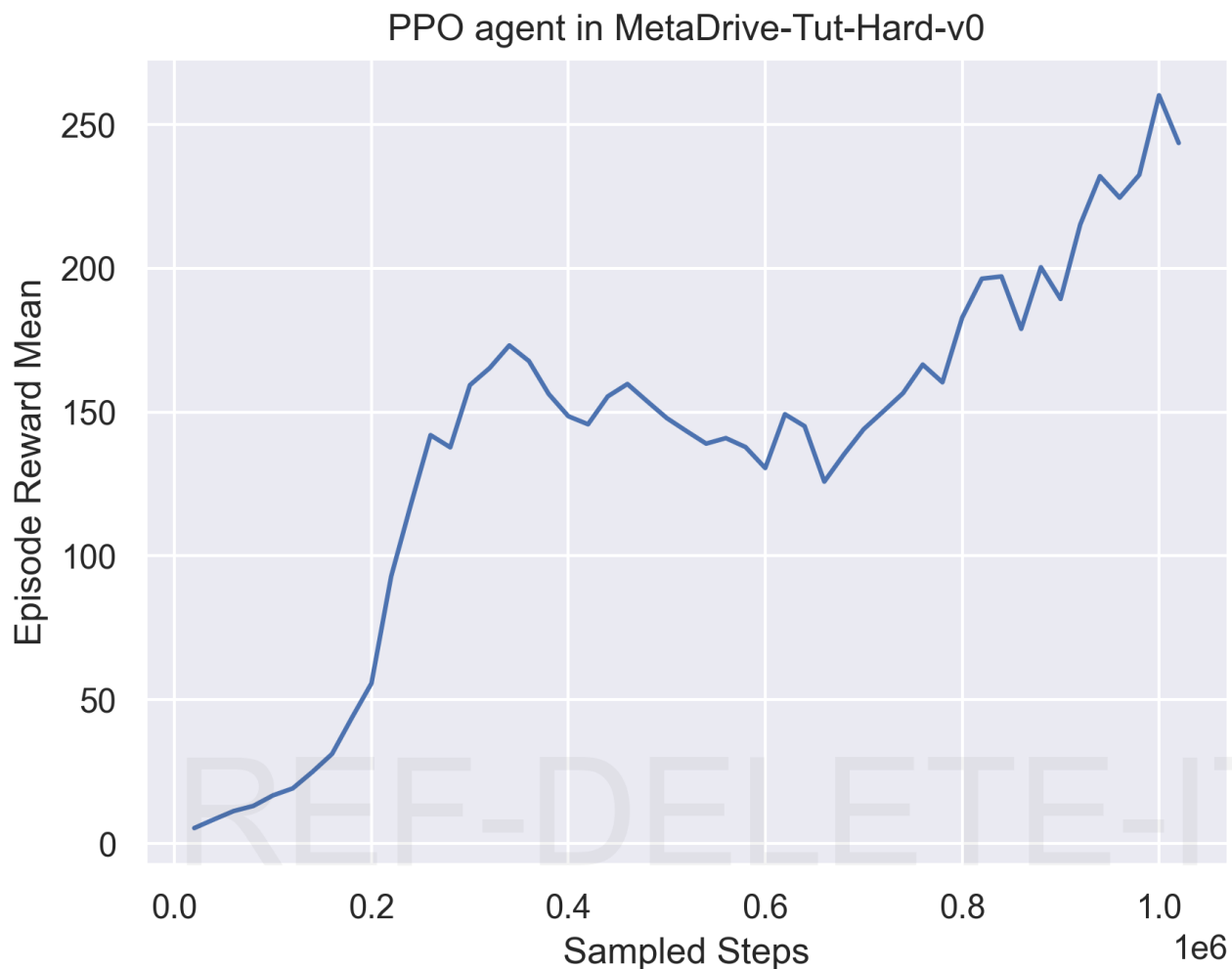### TD3 in MetaDrive-Tut-Hard-v0

20 points

TD3 agent in MetaDrive-Tut-Hard-v0

Learning curves of PPO

PPO in CartPole-v1

20 points

PPO agent in CartPole-v1

PPO in MetaDrive-Tut-Hard-v0

20 points

PPO agent in MetaDrive-Tut-Hard-v0

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)

PPO generalization results