



UNIVERSITÀ  
DEGLI STUDI  
DI TRIESTE

## Analysis of RL Algorithms for a Simulated Hill Climb Racing Agent

July 28, 2025

## 1 Introduction

## 2 Environment

## 3 Deep Q-Network

## 4 Expected SARSA

## 5 Proximal Policy Optimization

## 6 Results

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2 Environment

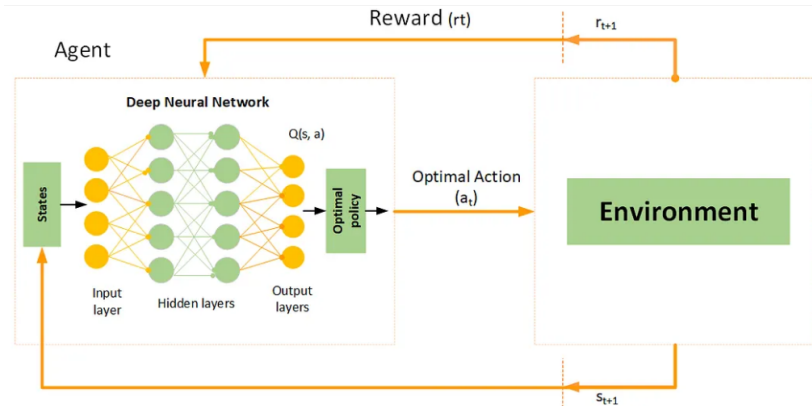
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# DQN Algorithm



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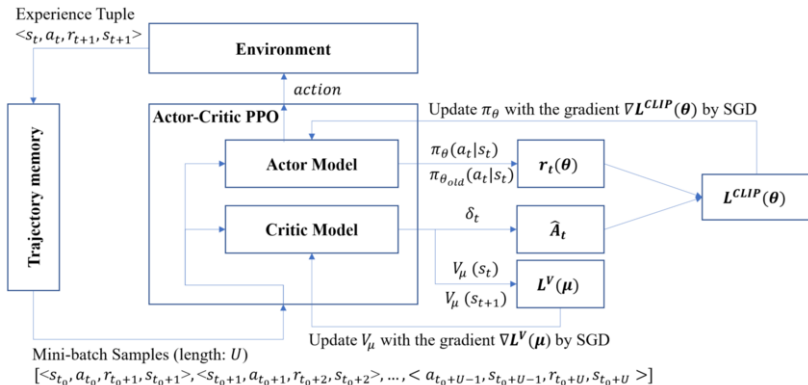
# Expected SARSA Algorithm

images/ESARSA\_diagram.png



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# PPO Algorithm



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Thank you!