

**PUNE INSTITUTE OF COMPUTER TECHNOLOGY,
DHANKAWADI, PUNE – 43.**

SEMINAR ABSTRACT

Academic Year: 2021-2022

DEPARTMENT: IT

Seminar On “Reinforcement Learning and Deep Reinforcement Learning”

By **Aditya Kangune**

Roll No. : **33323**

1. Name of the Topic: Reinforcement Learning and Deep Reinforcement Learning

2. Topic-wise contents:

1. Introduction to Deep Reinforcement Learning (DRL):
 - a. Exploring the basic RL techniques like MDPs and Q-learning.
 - b. Working on combining Deep Learning with Reinforcement Learning resulting in the formation of Deep Q-Networks.
2. Exploring use cases of RL.
 - a. One of the basic use cases is the use of RL in Atari games.Future Scope: Using RL in making personalized recommendations.
3. Exploring multi-agent environments and the interactions between them.

3. References Used:

- [*End to End Learning for Self-Driving Cars*](#)
- [*Genie: A Generator of Natural Language Semantic Parsers for Virtual Assistant Commands*](#)
- [*Recommendation systems: Principles, methods, and evaluation*](#)
- [*An Overview of Chatbot Technology*](#)
- [*DynaMIT: a simulation-based system for traffic prediction*](#)

Bibliography:

- [DeepLizard Youtube Playlist on RL](#)
- [Deeplizard](#)
- [Udemy](#)



Date: 14/09/2021

Student

REMARKS BY UG SEMINAR CO-ORDINATOR:

UG Seminar Coordinator