Reinforcement Learning

(CSL 348)

Lab Practical Report

THE
NORTHCAP
UNIVERSITY

Faculty name: **Prof. Neetu Singhla**

Student name: **Abhishek Dubey**
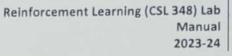
Roll No.: **21CSU323**

Semester: **5**th

Group: **AIML-3**

Department of Computer Science and Engineering

NorthCap University, Gurugram- 122001, India

Session 2023-24

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S.No	Experiment Title	Date of Experiment	Date of Submission	Sign student	CO Covered	Sign Faculty
1	Implement Probability using Python.	8.08.23	8.08.23	Abhishek	CO1	
2	Write a Python Program to compute Correlation Coefficient in a dataset.	22.08.23	22.08.23	Abhishek	CO1	
3	Write a Python program to solve the Multi-Armed Bandit problem using the Exploration only, Greedy Algorithm and Epsilon Greedy Algorithm.	5.09.23	05.09.23	Abhishek	CO2	Neelu 28/11/23
4	Write a Python program to solve the Multi-Armed Bandit problem using the Upper Confidence Bound Algorithm. Compare the reward obtained with random sampling.	5.09.23	5.09.23	Abhishek	CO2	
5	Write a Python program to solve Multi-Armed Bandit problem using Thompson sampling.	12.09.23	12.09.23	Abhishek	CO3	
6	Write a python program to implement policy iteration in Dynamic programming.	19.09.23	19.09.23	Abhishek	CO4	
7	Write a python program to implement value iteration in Dynamic programming.	26.09.23	26.09.23	Abhishek	CO4	Neelu 28/11/23
8	Write a Python Program to implement Monte Carlo method	17.10.23	17.10.23	Abhishek	CO5	

| 9 | Write a program to implement Q-Learning in Python. | 14.11.23 | 14.11.23 | Abhishek | CO5 | |