



**Vidyavardhini's College of Engineering and Technology**

**Department of Artificial Intelligence & Data Science**

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Experiment No. 9
Case Study on Applying reinforcement learning techniques to solve a real-world problem, such as training a self-driving car to navigate a simulated road environment.
Date of Performance:
Date of Submission:



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**Aim:** Case Study on Applying reinforcement learning techniques to solve a real-world problem, such as training a self-driving car to navigate a simulated road environment.

**Objective:** The objective is to demonstrate the practical application of reinforcement learning in training self-driving cars, aiming to optimize their navigation in simulated road environments, thereby advancing the development of intelligent autonomous systems for real-world deployment

**Theory:** Write your own report on the Applying reinforcement learning techniques to solve a real-world problem domain, such as training a self-driving car.

### Conclusion:

1. What specific reinforcement learning algorithms were used in the training process, and how were they selected based on the problem requirements?
2. What specific reinforcement learning algorithms were used in the training process, and how were they selected based on the problem requirements?