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Reinforcement Learning  
 Lesson-End Project Problem Statement



**Solve the MountainCar Environment Problem Using Deep Q-Learning**

**Problem Statement**: Implement DQN on the MountainCar environment.

**Hyperparameters:**

gamma = 0.85

epsilon = 1.0

epsilon minimum = 0.01

epsilon decay = 0.995

learning rate = 0.005

tau = 0.125

**Architecture for the CNN model:**

model = Sequential

Dense layers = 4

Activation function = Relu

Loss function = Mean squared error

Optimizer = Adam

**Prerequisites:**

* Python
* OpenAI Gym

**Steps to perform:**

1. Create the DQN agent class
2. Train the DQN agent for MountainCar environment
3. Save the model