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Project Overview

In this project you will apply reinforcement learning technique in a simplified world to aid it in effectively reaching its destination. You will investigate the environment the agent operates in by constructing a simplified implementation. Once your agent is successful at operating in the environment, then identify each possible state the agent can be in when controlling a self-driving car through city lights and oncoming traffic at each intersection. With states and actions, you will implement the Q-Learning algorithm for the self-driving agent to guide the car through the allotted time. Finally, you will improve upon the Q-Learning algorithm by adjusting the configuration of learning and exploration factors to ensure the car reaches its destinations with consistently positive results.