

COMP-3200-001 (Algorithmic Tech Smart Systems - 88685)









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# **Submission History**

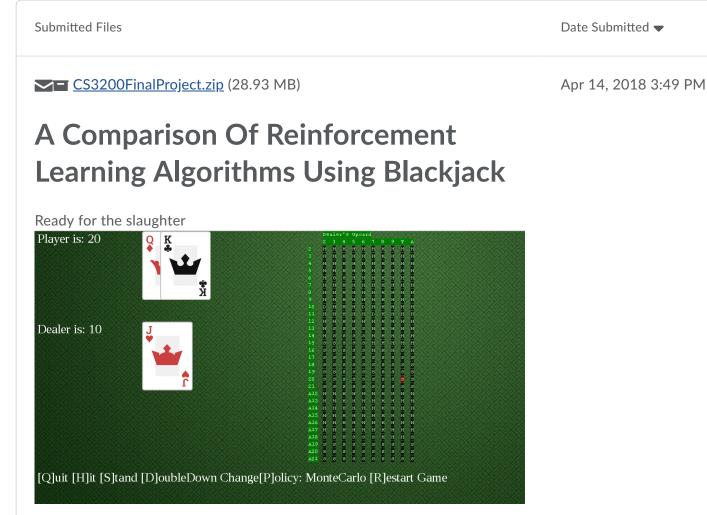
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### Introduction

In this project, we aim to develop an optimal playing strategy for the popular game Blackjack. The game is commonly played at casinos worldwide. The rules are straightforward and it serves as an interesting model to compare reinforcement learning algorithms. Which reinforcement learning algorithm produces the best results with minimal parametric tweaking? This is the question that we aim to answer.

# Usage

#### Windows

• A pre-built .exe of the Blackjack game, which is retrieving from the static policies generated can be found in the Executable/ directory.

#### **Source Code**

- The model of the game is found in the Source Code/ directory in the Model.py file.
- The view generated is found in the Source Code/ directory in the View.py file.
- The Al agent is found in the Source Code/ directory in the Controller.py file.

## Reproduce Results

- To reproduce the results shown in the report, please execute the ResultDataWriter.py file found in the Source Code/ directory, and input your choice of parameters.
- The results of the execution will be found in the results.csv file.

# Report

The final report for this project is found in the License and Report/directory.