PokerAI: Using Reinforcement Learning for Texas Hold 'Em Agent

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Abstract

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1. Introduction

Texas Hold 'Em is one of the most popular games of poker. It is found at every casino, and most individuals who gamble have at least dabbled in the game. However, Texas Hold 'Em, like every other game at the casino, is high-risk. It is difficult to learn without losing money, even when playing online against real people.

This project creates AI agents to play against the human player, allowing people to lean and play poker without the risk of losing money. Using reinforcement learning, the AI functions as a human, with the risk of bluffing and playing honorably.

2. Related Work

3. Dataset

Due to the fact that this project uses reinforcement learning, there is no dataset used. There are datasets for Texas Hold 'Em games, but this project did not use any.

4. Methods

5. Discussion

6. Conclusion

7. Bibliography