

About ShortyDeck Poker Solver Project

1. Game Intro

Short deck poker is a new variant of Texas Holdem, it removes the 2-5 from each suit, make the deck 36 cards instead of 52.

Since the number of cards changes, the rules of the game are slightly different with standard Texas holdem.

The hand ranking as following:

1. High Card
2. One Pair
3. Two Pairs
4. Three of a kind
5. Straight
6. Full House
7. Flush
8. Four of a kind
9. Straight Flush
10. Royal Flush

Also, since 2-5 are removed from the deck, now Ace can also be used as a 5 for straight. Thus, A,6,7,8,9 is also a straight.

2. Why do we want to develop Shortdeck solver

Since shortdeck is a new game and it's getting more and more popular these days, there are a lot of professional poker players are trying to study this game to gain an edge on armature players.

Unfortunately, there is no software available to public for people to study and analyse this game yet.

That's why we want to develop a software can allow users to analyse their poker hands and improve their games.

3. Software features

1. Poker Hand odds calculator

Given player specific hands with or without community card information, we find out the winning odds of each player.

Example for Normal Texas holdem:

<https://www.cardplayer.com/poker-tools/odds-calculator/texas-holdem>

2. Range V.S Range calculator

Given different sets of possible poker hands, find out the winning odds of each sets(ranges)

3. Range construction

Using the simulations, we have done to support users to construct their own raising range preflop.

4. Range vs percentage of hands

Give a specific set of possible hands, find out the winning odds of this hand against a certain percentage of hands, for example, (all pocket AA and pocket KK vs top 10% of hands)

4. Targeted Users

We are targeting on the market of professional poker players and people who find poker game interesting.