

Problem Statement for Texas Hold-Em

Hui Chen, Sam Hamel, Nareshkumar Maheshkumar

September 30, 2015

What problem are you trying to solve?

Texas Hold-em is a complex card game, precisely a variation of the original poker game, that mixes probability, human behaviour, and luck into one card game, which millions have come to play. Unfortunately, it is hard for a beginner to get accustomed to this game; you need multiple people, cards, poker chips, and sometimes even real money. The game is not simple, having many nuances to it. There are plenty of rules and strategies to it and it is a game which regular and more advanced players can easily take advantage of beginners, which is a quick way to lose your money. Therefore people who wish to get into the game have a hard time getting started and playing.

Why is this an important problem?

This is an important problem because beginners get into gambling expecting to win a lot of money without realizing the tricks and difficulties involved with them. Moreover, Texas Hold-em is one of the most popular card games played at a casino, which will be quite difficult for a new player to adapt to, due to the intricacies and risk involved with each move a player makes. Therefore, it is really important that a beginner player goes into his first professional Texas Hold-em game with some background information and experience with the game, to have a chance at winning.

What is the context of the problem you are solving?

The game should be available for all three major operating systems (Windows, Mac and Linux). The stakeholders in this project are Dr. Spencer Smith (the “client”), the end users who consist of: beginner poker players that are trying to improve but lack practice, casual poker players who simply enjoy the game, the development team and the group supervisor(s).