

POKER NOW ANALYTICS

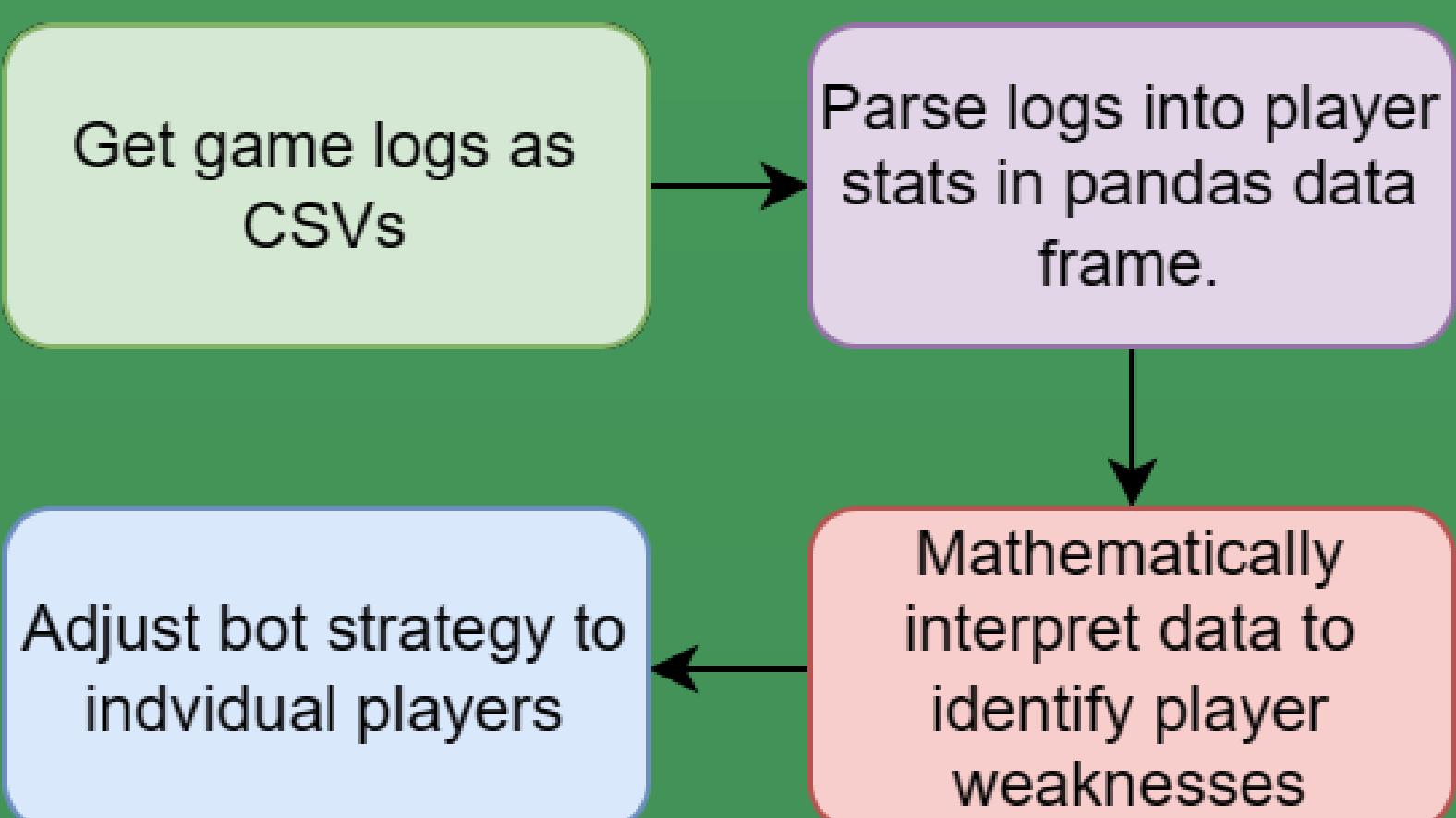
ALISON GU, LUCAS JIA, JOHNNY LIN, SHIRLEY WANG, EDWIN YANG, AUSTIN YU

OBJECTIVES

- Using data of past games, collect data of individual players from the pokernow.club website.
- Create a bot capable of playing in pokernow.club tournaments with solid poker fundamentals.
- Feed our bot data to modify frequencies and implement an exploitative strategy for logged players.



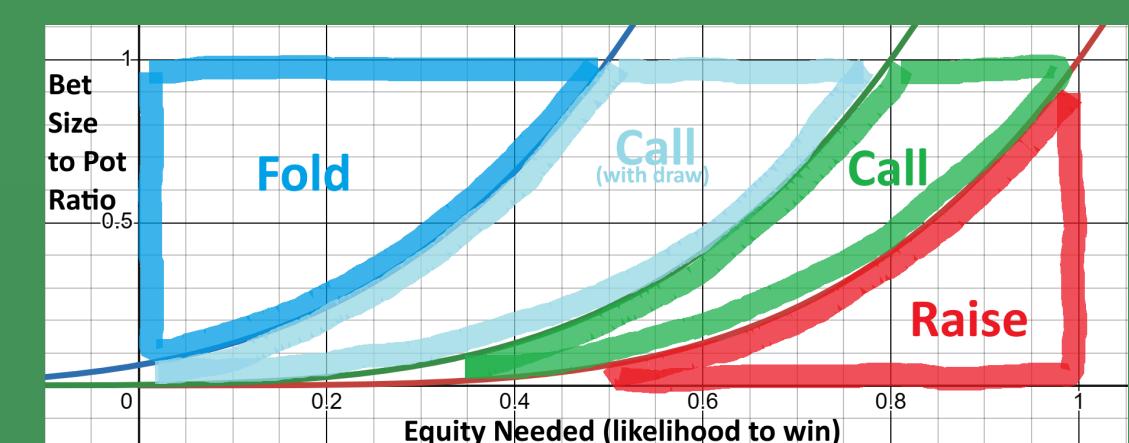
METHODOLOGY



ALGORITHM

- **Pre-flop:** Position-based and blinds-based approach. Fixed strategy.
- **Post-flop:** Equity calculator simulates runouts to inform decisions. Opponent data and perceived ranges are accounted for to optimize strategy.

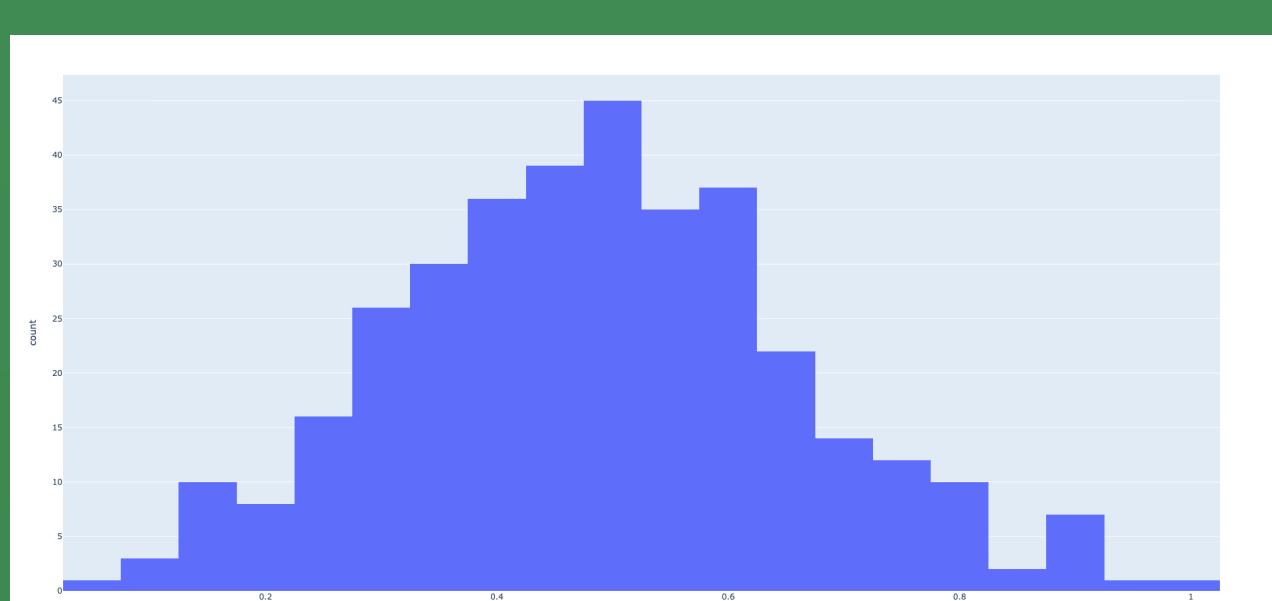
Example: Default post-flop strategy (when facing raise)



TECH STACK

- **selenium** - python library for web automation, reading game data, "playing" on website.
- **pandas** - convenient, accessible storage for player data.
- **plotly** - create visual models of player data.

Example: Proportion of VPIP (voluntarily put into pot)



CONCLUSIONS

- **Observations:** Population plays more hands than is optimal (high VPIP) Bot shows promising results despite using marginal exploits and a heavily simplified poker strategy
- **Challenges:** Collection of game data and joining mass games are heavily barred by captchas, demanding some level of manual input. Implementation of data structures and algorithms were poorly optimized → bot is limited by its runtime.