

NAME

Kurtoid Bot for the swiss card game «Jassen» developed for the lecture «Deep Learning For Games»

DESCRIPTION

TODO: Kurtoid is a simple bot. There are multiple bots, we use trumpruloid.py...

TRUMP SELECTION

The trump selection is implemented using a simple heuristic-based algorithm using a concept called *Bockchain*. A card that is unbeatable for color trumps resp. unbeatable when played as the first card in «Obe-Abe» or «Unde-Ufe» game, is called «*Bock*» in Swiss German. The idea behind the *Bockchain* is to go through all six possible trump selections, and compute how many «Böck» are in the hand for each of those. For each possible trump, a score is calculated, which is computed by the number of cards for each trump color, plus the length of the *Bockchain*. The trump option with the highest score is selected. If the player can select the trump forehand, and if the total score is below a threshold of five, the trump selection is pushed to the partner.

CARD SELECTION

TODO: simulate round for every card, pick card one, simulate the other cards randomly, pick card with the best outcome

DEPLOYMENT

The application is packed into a Docker container, which is pushed to Heroku. The credentials to the Enterprise Lab GitLab are to be injected using environment variables into the Docker build process, in order to pull the DL4G Jass library, without exposing it to the internet.

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GITHUB

The project's code can be found on GitHub under <https://github.com/skiapoden/kurtoid>