UDACITY

PROJECT

Build a Game-Playing Agent

A part of the Artificial Intelligence Nanodegree Program

PROJECT REVIEW

CODE REVIEW 3

NOTES

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Meets Specifications

Greetings Student,
Great submission! The implementation of heuristics is correct and gives good results. Also, the written reports (`heuristic_analysis.pdf, research_review.pdf`) are impressive. The submission perfectly addresses all the feedback points. Congratulations! Keep up the good work.

Game-Playing Agent

✓

The minimax and alphabeta functions pass all test cases.

Correct!

Heuristic Analysis

✓

At least three evaluation functions are implemented and analyzed.

Great work! Three evaluation functions are implemented and analyzed (`heuristic_analysis.pdf`) in this submission.

✓

A brief report lists (using a table and any appropriate visualizations) and verbally describes the performance of agents using the implemented evaluation functions. Performance data includes results from tournament.py comparing (at a minimum) the best performing student heuristic against the ID_Improved agent.

Perfect! The report uses a table and appropriate visualizations, and describes the performance of agents using the implemented evaluation functions. Also, the report compares the results obtained.

✓

The report makes a recommendation about which evaluation function should be used and justifies the recommendation with at least three reasons supported by the data.

Sensational! The report recommends using **AB_Custom** and gives at least three reasonable justification (it outperformed all of the other heuristics, winning 73.3% of its matches, it outperformed the benchmark heuristic in its head-to-head matchup, winning 52 matches vs 48, It has great breadth of performance, by adjusting its strategy throughout the course of the match, it demonstrates a greater level of game awareness).

Paper Summary

✓

The write up is approximately 1 page (500 words) and includes a summary of the paper (including new techniques introduced), and the key results (if any) that were achieved.

Excellent! The report uses new techniques like reinforcement learning, Monte Carlo tree search.

Suggestions

I suggest writing the report on 1 page and provide only the necessary details for the summary.

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3 CODE REVIEW COMMENTS ›

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