



PROJECT

Build a Game-Playing Agent

A part of the Artificial Intelligence Nanodegree Program

PROJECT REVIEW

CODE REVIEW 3

NOTES

SHARE YOUR ACCOMPLISHMENT!  

Meets Specifications

Dear Student,

you did excellent job on this project! ★ Your code runs flawlessly, contains great documentation, and the logging features that you put in are absolutely spectacular and Udacious! You provided a great heuristic analysis of your evaluation functions. Your research report is very well written and addresses all key results of the paper. Very well done!

Keep up the great work, I wish you many wonderful learning experiences in this nanodegree 😊

Game-Playing Agent

The minimax and alphabeta functions pass all test cases.

All tests pass with flying colors! ✨

Heuristic Analysis

At least three evaluation functions are implemented and analyzed.

Excellent work here! ★ You implemented three evaluation functions and additional heuristics made of their combinations. All functions are thoroughly analyzed with clear descriptions of their behaviour. Your reasoning behind their behaviour is made very clear.

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.

Again, great job! Your report presents the results in a very clear way with an excellent description of the performance of individual agents. As you learned it is hard to beat ID_Improved with only a better heuristic. A trade-o between a more complex, better heuristic, and a simple, fast heuristic must be made because a simple function allows the search to proceed at a deeper level, which can be more valuable than a better estimate at a shallow depth.

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.

You give a good recommendation about your choice of the custom score. The reasoning behind your implementation is made very clear and the final

recommendation is greatly supported by the data.

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 job! Your summary of the paper "Mastering the game of Go with deep neural networks and tree search" is very well written and addresses all key results of the paper. You summarized all main points of the paper in a very clear way!

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