

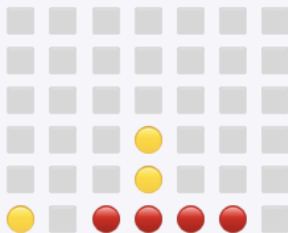
Yaw Nimo-Agyare

April 28th 2025

Player vs AI Games out of 10

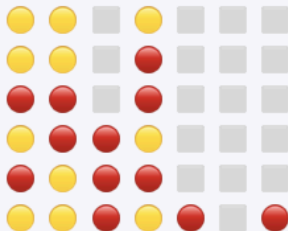
Game #1: I won easily with an old-school trick going in the middle and utilizing the adjacent columns to get a two-way win.

🎉 Player (●) Wins!



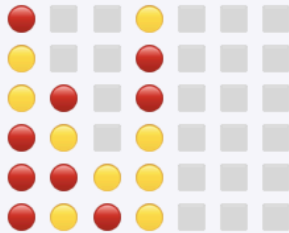
Game #2: This game lasted a bit longer, but I won using a two-way trick the AI didn't see. I noticed the AI tends to follow up on my moves when my moves are at the center and the ends.

🎉 Player (●) Wins!



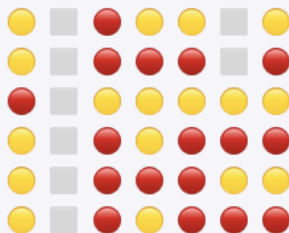
Game #3: This game the AI beat me. I didn't see a move ahead of time and it actually beat me to this move. First time it played well towards my moves.

🟡 AI Wins!



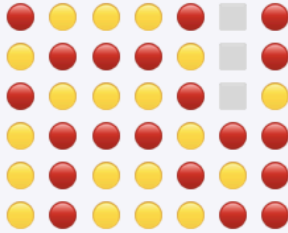
Game #4: The AI beat me again this round. We played almost a full board. I got caught in a situation where, based on how the AI set itself up, I was going to lose either way.

🟡 AI Wins!



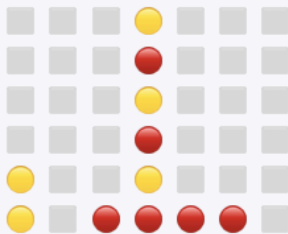
Game #5: WOW! This game had it all. I didn't even see that I had this win lined up. It was my the only move I had going that column and I was thinking "I'm going to lose" but I CLUTCHED up and WON!! I have noticed the AI loves trying to gain the center positioning. That's the strategy it goes for.

🎉 Player (●) Wins!



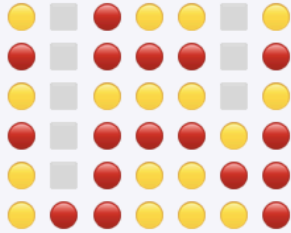
Game #6: OHH Boy. I got the AI with this old-school move. This is one thing the AI lacks. Not seeing and being able to block off that strategy to win. I can do this every time and win but for testing sake I won't do so.

🎉 Player (●) Wins!



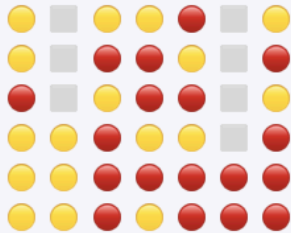
Game #7: Darn! I didn't see this one again, I was too focused on the AI winning horizontally and didn't see the diagonal way. It was a good game. The AI does well when the game goes on for a while. It knows how to set itself for success when it comes down to the the wire.

🟡 AI Wins!



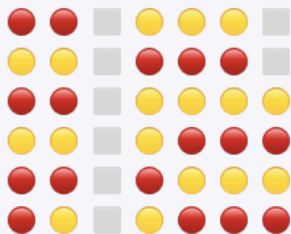
Game #8: I got my stride back. LETS GOO!! I beat the AI. I set myself up for this win when it came down to the wire. I was going to win either way. That's the best way you can win at Connect 4. Woowoo!!

🎉 Player (🔴) Wins!



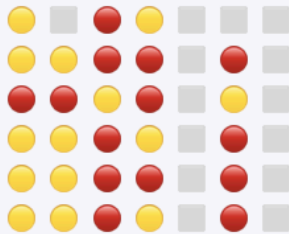
Game #9: AI won again :(. I got screwed not gaining the middle. The AI did that and before you know it, I realized that if the game keeps going, I would lose in the end.

🟡 AI Wins!



Game #10: Last game. I thought I was doing a good job keeping the luck on my side and before you know it. AI cooks up something I was totally blinded by and beats me..

🟡 AI Wins!



Overall:

I've watched myself go from a so-called decent Connect 4 player to an amateur making silly mistakes. AI has got me. I got humbled. I can see that the minimax with alpha-beta pruning is working. There are a couple of bugs that need to be fixed for it to be fully efficient, but I would consider it pretty good and challenging.