

GE-103

Fun Games

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I. INTRODUCTION:

Have you ever wondered how a chess program is designed for different levels? How a computer performs smarter and smarter moves as the level ups? Minimax algorithm is one of the tools that the computer uses to find best move for itself assuming that the person in front also moves his best.

So, our project is about implementing this algorithm in tic tac toe.

II. LITERATURE REVIEW:

Tic tac toe also called as noughts and crosses game has gone through various phases across the history. In ancient Egypt it was played on tiles and wooden boards. Then in recent world we used to play it with pen and paper. But it was in 1952 for the first time that it was programmed to be played on computer by British scientist Sandy Douglas in form of a video game which he named OXO. This program he wrote on EDSAC as a thesis on human computer interaction at Cambridge University.

This game was played by the AI equipped EDSAC against a human user. The user input was one of the positions of the 9 squares where he wanted to put the nought or the cross. Then it was followed by computer's chance. Accordingly, the state of the game was displayed and got updated on the screen.

III. OBJECTIVE:

The objective of our project is to code a Tic Tac Toe game using python. We are using two lists to store each state of a tic tac toe board. The 3*3 board is initially filled with numbers from 0 to 8 indicating the positions at which crosses and noughts will be inserted. For user we are taking integer input of their choice. For player versus computer, we are developing two modes. One is when computer randomly picks an unfilled place on the board. The other one

[illegible]

CONCLUSION:

ACKNOWLEDGEMENT:

REFERENCE: