

Mini-MAX Algorithm (Module 3)

* Mini-Max algorithm

3-Mini-Max algorithm is a recursive or backtracking
algorithm which is used in decision-making and
game theory. It provides an optimal move for
the player assuming that apponent is also playing optimally.

- Mini-max algorithm uses recursion to search through

the game-tree
- In this algorithm two players play the game, one is call MAX and other is called MIN.

-min-Mar algorithm is mostly used for game playing in Al. Such as chess, checkers, tic-toc-toe. This Algorithm computes the minimax decision for the

current State.

Step 1: In the first Step, the algorithm general ed the entire game-tree and apply the utility function to get the utility values for the terminal states In the below tree algorithm, let's take A is the initial state of the tree suppose maximizer take first turn which has worst-case initial value = infinity, and minimizere will take next turn which has worst - case initial value = + infinity.







