TEAM EFFECTIVENESS REPORT

TEAM #19

Name	Contribution	Percentage of Contribution	Electronic Signature
Meesum Ali Khan	• I built the Tree Class which would be used to generate the tree data structure for the MCTS Agent, and store the necessary information • I worked on different tree functions to facilitate the MCTS process • I wrote portions of the comparison of MCTS with other agents in the report, and also the conclusion	**25%**	Meesum Ali Khan
Siva Reddy Munagunuru	• I implemented the MCTS Agent using the four fundamental steps (selection, expansion, simulation, backpropagation) • I was responsible for optimization of MCTS to make it run quicker so we can perform larger tests • I wrote the report section on technical approach for MCTS	**25%**	Munaganuru Siva
Kesava Prakash Thatavarthi	• I wrote the heuristic function for evaluating the leaf nodes at simulation stage, and finding best moves to take during simulation • I varied and adjusted different feature values for food count, scared ghosts, and ghost distance and tested until MCTS Agent was performing appropriately • I wrote the abstract and introduction sections of the report	**25%**	Kesava Prakash
Satya Shreya Sri Reddy	• I incorporated various hyperparameters such as simulation depth, iteration count, adversarial ghost, exploration parameter, etc so we can experiment with different configurations • I performed the testing and evaluation of MCTS agent against other agents, and performed ANOVA and T-Test for comparing results • I wrote parts of the testing and analysis section of the report, mainly related to score based performance	**25%**	Satya Shreya Sri Reddy