**CS6037001**

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**Assignment 1**

1. T: Play tic tac toe

P: Percent of games one

E: Games played against itself

**Target Function**

Where V is the target function that maps the given board to a real number. The real number will be closer to 100 for better board states.

* When is a winning board state, then
* When is a losing board state, then
* When is a tied board state, then

is the function approximation. will be described by the following features:

* : The number of **X**’s in the same row
* : The number of **X**’s in the same column
* : The number of **X**’s in the same diagonal
* : The number of **O**’s in the same row
* : The number of **O**’s in the same column
* : The number of **O**’s in the same diagonal

Therefore:

1. TODO
2. Below is the graph generated by the trained model. The model predicted 46 out 75 values successfully.

