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E/16/156

CO542

Neural Networks and Fuzzy Systems

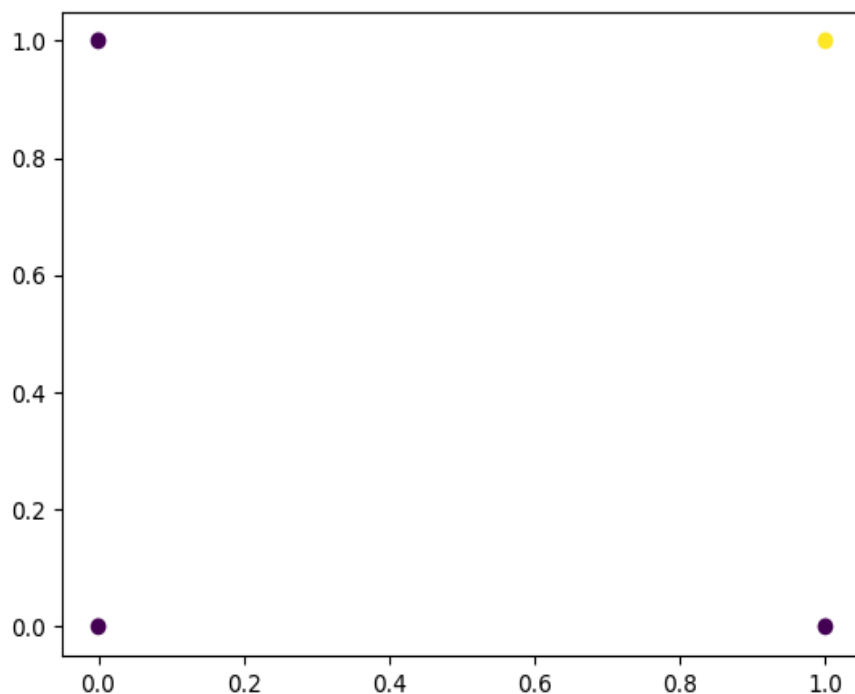
2021

Lab 03 - Introduction to Perceptron

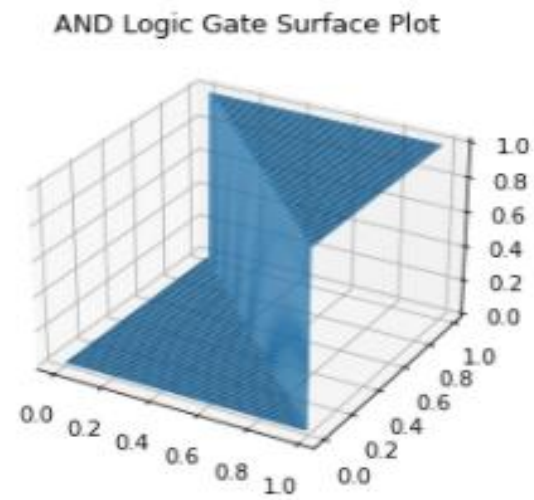
Exercise 1

1. Demonstrate the capability of a single-layer perceptron to model the following logic gates: AND , OR , NOT.
2. Generate the output curves/surfaces for these perceptron models as the input/s vary continuously from 0.0 to 1.0 (hint: surface plots in python: surface plots.)

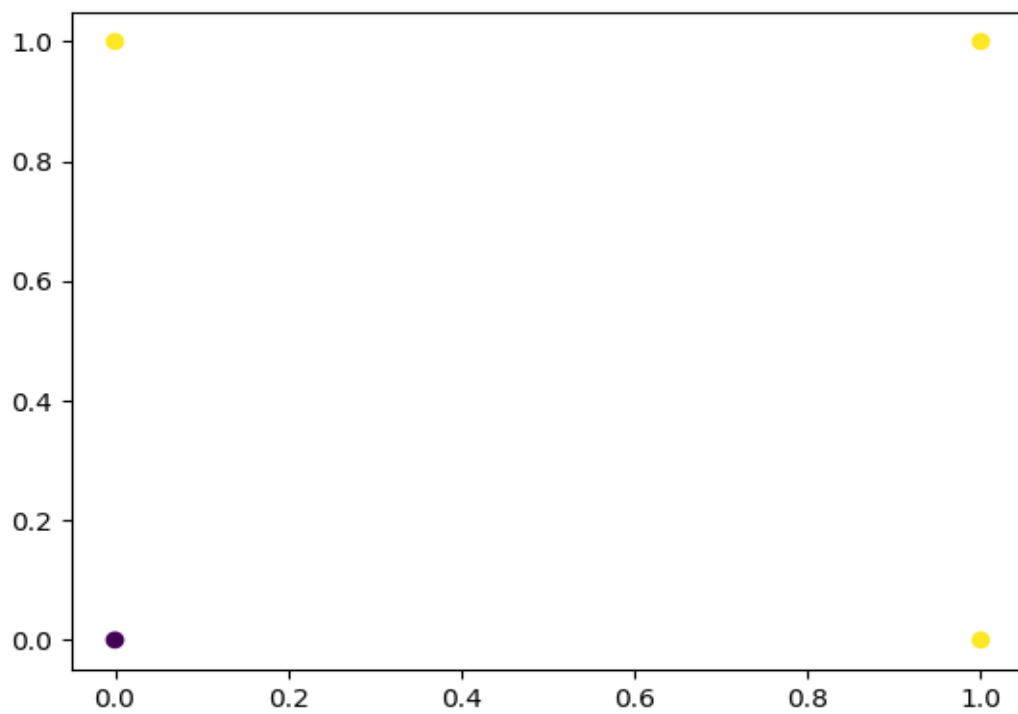
AND Gate



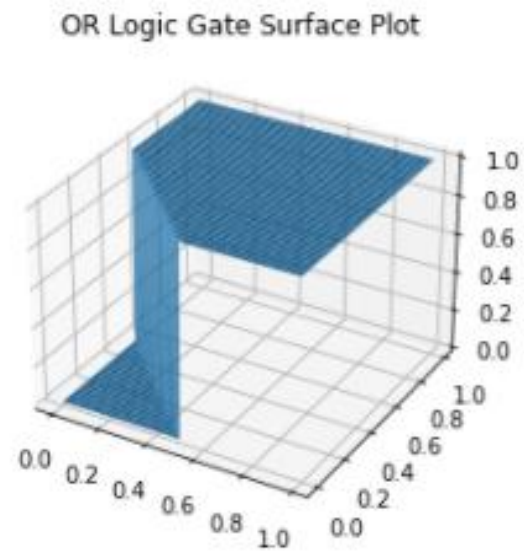
Output Surface for NOT Logic gate



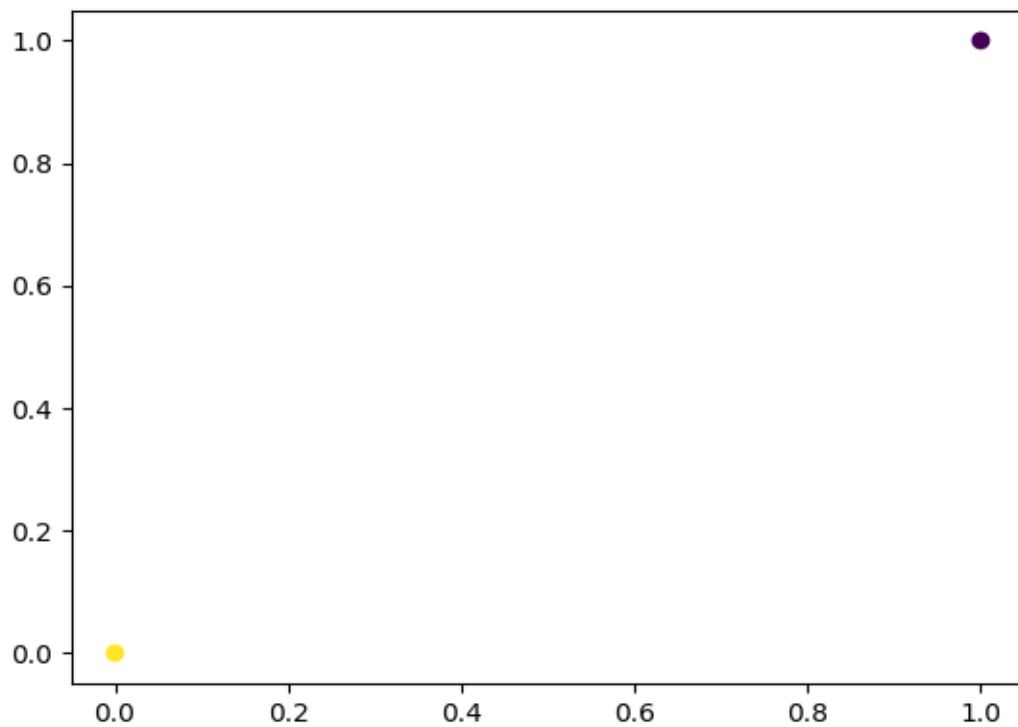
OR Gate



Output Surface for NOT Logic gate



NOT Gate



Output Surface for NOT Logic gate

