



# **BVRIT HYDERABAD**

## **College of Engineering for Women**

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Bachupally, Hyderabad-090**

### **Department of CSE(AI&ML)**

**Name of the Activity: Machine Learning Playground**

**Faculty Name: Ms. A Naga Kalyani**

**Class / Semester: III CSE B / II**

**Academic Year: 2022- 2023**

**Subject Name: Machine Learning**

**Topic: Machine Learning Algorithms**

**Brief Write-up (Not exceeding 200 Words)**

Machine Learning playground is a platform for playing, exploring and understanding several Machine Learning Algorithms. Neural network playground is a platform for simulating with neural networks. These platforms will help the students to understand how to create a model and what are the factors which effect the performance of the models.

#### **Objective:**

To meet the understanding of the subject such as knowledge of the basic concepts of machine learning and the usage of these algorithms with data.

A Neural Network Playground

https://playground.tensorflow.org/#activation=tanh&batchSize=10&dataset=circle&regDataset=reg-plane&lear...

000,000 0.03 Tanh None 0 Classification

DATA: Which dataset do you want to use?

FEATURES: Which properties do you want to feed in?

2 HIDDEN LAYERS

4 neurons 2 neurons

OUTPUT: Test loss 0.501, Training loss 0.504

The outputs are mixed with varying weights, shown by the thickness of the lines.

This is the output from one neuron. Hover to see it larger.

Colors shows data, neuron and weight values.

Show test data Discretize output

### Neural Network Playground Platform

Machine Learning Playground

https://ml-playground.com/#

Machine Learning Playground

Upload Data Save Data Clear all

K Nearest Neighbors Perceptron Support Vector Machine

Artificial Neural Network Decision Tree

Parameters: K: 3 Train

K Nearest Neighbors

TL;DR - Birds of a feather flock together

Feedback

### Machine Learning playground platform

