5. Predicting the Test Data

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Project due Apr 5, 2023 08:59 -03 Completed

Now fill in the code for the function `predict`, which will use your trained neural networ
data.

You will be working in the file `part2-nn/neural_nets.py` in this problem

Implementing Predict

5.0/5.0 points (graded)

Available Functions: You have access to the NumPy python library as `np` , `rectified`
`output_layer_activation`

Note: Functions `rectified_linear_unit_derivative` , and `output_layer_activatio`
handle scalar input. You will need to use `np.vectorize` to use them

```
class NeuralNetwork(NeuralNetworkBase):

    def predict(self, x1, x2):


        input_values = np.matrix([[x1],[x2]])

        # Compute output for a single input(should be same as the forward
        hidden_layer_weighted_input = np.dot(self.input_to_hidden_weights,
        relu_vec = np.vectorize(rectified_linear_unit)
        hidden_layer_activation = relu_vec(hidden_layer_weighted_input)
        output = np.dot(self.hidden_to_output_weights, hidden_layer_activa
        activated_output = output_layer_activation(output)

        return activated_output.item()
```

Press ESC then TAB or click outside of the code editor to exit

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Test results

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