**Neural Network from Scratch**

**Instruction on how to run my code:**

**For simplicity I have kept 3 separate files that computes based on three different activation function.**

You can run this project on google collab or on GPU machine.

To run this project on Google Collab and use the file named:

1. **“Neural\_Network\_ukm202\_sigmoid.ipynb” to get the result that uses sigmoid activation function.**
2. **“Neural\_Network\_ukm202\_tanh.ipynb” to get the result that uses tanh activation function.**
3. **“Neural\_Network\_ukm202\_relu.ipynb” to get the result that uses ReLU activation function.**

To run this project on GPU machine and use the file named:

1. **“Neural\_Network\_ukm202\_sigmoid.py” to get the result that uses sigmoid activation function.**
2. **“Neural\_Network\_ukm202\_tanh.py” to get the result that uses tanh activation function.**
3. **“Neural\_Network\_ukm202\_relu.py” to get the result that uses ReLU activation function.**

**Result:**

|  |  |
| --- | --- |
| With Sigmoid activation function | **Chart, line chart  Description automatically generated** |
|  |
|  | |
| With tanh activation function | **Chart, line chart  Description automatically generated** |
| **Text  Description automatically generated** |
|  | |
| With ReLU activation function | **Chart  Description automatically generated** |
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