DEEP LEARNING PRACTICAL 5

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**Batch J1**

**Aim**:-

To evaluate accuracy of PIMA Indians datasets.

**Observations**: -

1.**3 layers** of Sequential model were built.

a.1st layer has activation of **relu**.

b.2nd layer also consists of **relu**.

c. The output layer has activation function of **sigmoid**.

2.The model is compiled with loss as **binary cross entropy**, optimizer **adam** is used.

Epochs are 50 and batch size is 10.

Accuracy of the models is

Accuracy: 65.10

The link of the Collab sheet on which code was run is given below -

[https://colab.research.google.com/drive/1Lu62CmssKt6u0fspCHaUbK\_nPzjFYgN-](https://colab.research.google.com/drive/1Lu62CmssKt6u0fspCHaUbK_nPzjFYgN-#forceEdit%3Dtrue%26sandboxMode%3Dtrue%26scrollTo%3DEvnxnPIgtWWh) [#forceEdit=true&sandboxMode=true&scrollTo=EvnxnPIgtWWh](https://colab.research.google.com/drive/1Lu62CmssKt6u0fspCHaUbK_nPzjFYgN-#forceEdit%3Dtrue%26sandboxMode%3Dtrue%26scrollTo%3DEvnxnPIgtWWh)

**Conclusion**:-

PIMA Indians dataset on diabetes accuracy using Sequential model is 65.10%.