**Movies Reviews Classification Using BERT**

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| --- | --- |
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* **Running model (use Bert directly)**

With preprocessing

LR=1e-6

**Text

Description automatically generated**

**Show confusion matrix**

**(Best Accuracy )**

**Chart, treemap chart

Description automatically generated**

* **Running model (using 4 hidden layers)**

With preprocessing

LR=1e-6

**Graphical user interface, text

Description automatically generated**

**Show confusion matrix**

**Graphical user interface

Description automatically generated**

* **Running model**

Withoutpreprocessing

* + LR=1e-2

Chart

Description automatically generated

**Show confusion matrix** **Chart

Description automatically generated**

* + LR=1e-6

**Text

Description automatically generated**

**Show confusion matrix**

**Chart

Description automatically generated**

**comparing between the best validation accuracies for the different values of learning rate:**

Chart

Description automatically generated

* **Bonus part hidden layers:**

**LR = 1e-6**

**model = BertClassifier3(256, 128, 64, 32, 16)**

**Text

Description automatically generated**

**Show confusion matrix**

**Chart

Description automatically generated with medium confidence**

**LR = 1e-6**

**model = BertClassifier4(64, 32, 16)**

**Text

Description automatically generated**

**Show confusion matrix**

**(Second Best accuracy)**

**Chart, treemap chart

Description automatically generated**