<u>This file contains some of the experiments I tried while training the model to improve its accuracy in predicting captchas from images.</u>

7.

<u>Total Epochs</u> : **8**

<u>Learning Rate</u> : **1e-5** for first 3 epochs, **1e-6** for next 2 epochs, **1e-7** for next 2 epochs, and **1e-8** for last one epoch.

<u>Total Images</u> : Model trained on whole dataset (50k images).

Here, 0.71500 indicates prediction accuracy on 30% of the test data (evaluated at the end of the competition) and 0.71557 indicates prediction accuracy on 70% of the test data (evaluated live during the competition).

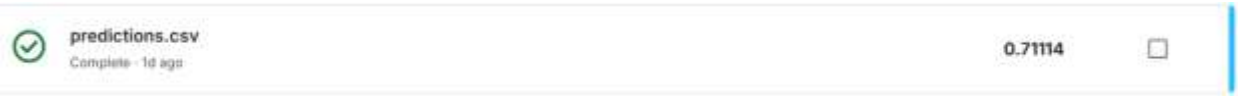
6.

<u>Total Epochs</u> : **9**

<u>Learning Rate</u> : **1e-5** for first 3 epochs, **1e-6** for next 2 epochs, **1e-7** for next 2 epochs, and **1e-8** for last 2 epochs.

<u>Total Images</u> : Model trained on whole dataset (50k images).

5.

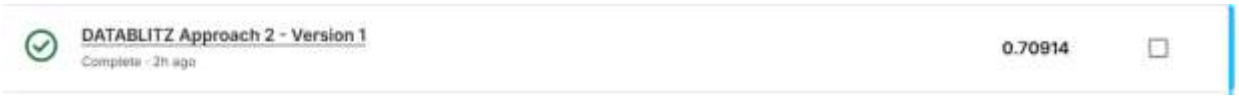


<u>Total Epochs</u> : **9**

<u>Learning Rate</u> : **1e-5** for first 3 epochs, **1e-6** for next 2 epochs, **1e-7** for next 2 epochs, and **1e-8** for last 2 epochs.

<u>Total Images</u> : Model trained on whole dataset (50k images).

4.



50k images, 5 epochs, 1e-5 learning rate for first 3 epochs and 1e-6 epochs for last 2 epochs.

3.

50k images, 5 epochs, 1e-5 learning rate

2.

25k images 5 epochs 1e-5 learning rate

50k images 2 epochs 1e-5 learning rate

<u>Learning</u> : <u>Try playing with learning rates</u>. <u>Always use whole dataset for making the model generic</u>.

1.

20k images, 3.1 epochs, 1e-5 learning rate

10k images, 5 epochs, 1e-5 learning rate

10k images, 1.5 epochs, 1e-5 learning rate

10k images, 1 epoch, 5e-5 learning rate

Learning : Try using more data.