Autosaved just now   ⊘ Edits visible only to you   Publish to project   ∘∘∘

Part 5 - MLP on Double MNIST

Add a description...

Harshit Aggarwal

Here, we have a double mnist dataset where all the images have 2 digits in them and we try to implement a mlp and see if we can correctly predict the digits.
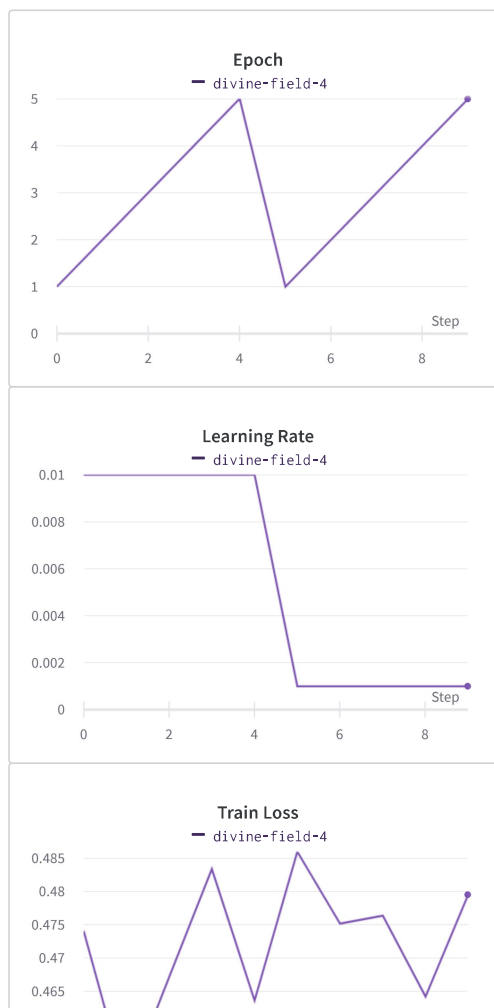
The dataset looks like:

We do hyperparameter tunning on the following parameters:

```
config.learning_rate = [0.01, 0.001]
config.batch_size = [64]
config.num_epochs = 1
```

The results for the same are:

0.46

0.455

Step

0   2   4   6   8

Validation Accuracy
— divine-field-4

38

36

34

32

Step

0   2   4   6   8

Epoch
— divine-field-4

5

4

3

2

1

0

Validation Accuracy

32   34   36   38

Learning Rate
— divine-field-4

0.01

0.008

0.006

0.004

0.002

0

Validation Accuracy

32   34   36   38

Import panel   Add panel

☑
Run set 1   ⋮   +   ◉

The best model is:

Batch Size	64
Epoch	5
Learning Rate	0.001
Train Loss	0.47952

Validation Accuracy   37.5