

## CSE 472 : Bangla Character Recognition Challenge

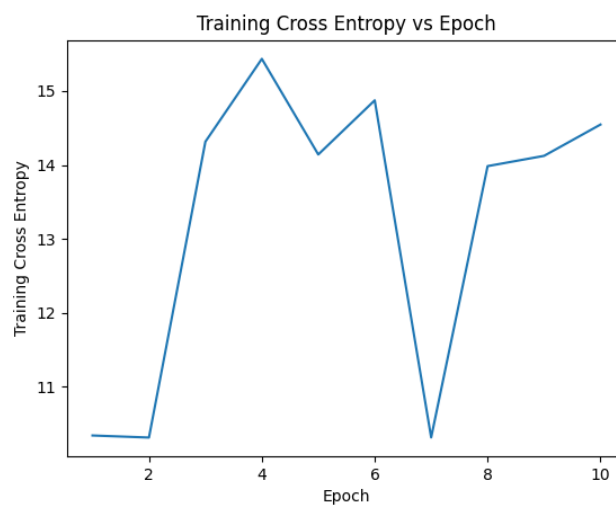
**Name:** Md.Mahedi Hasan Rigan

**ID:** 1705031

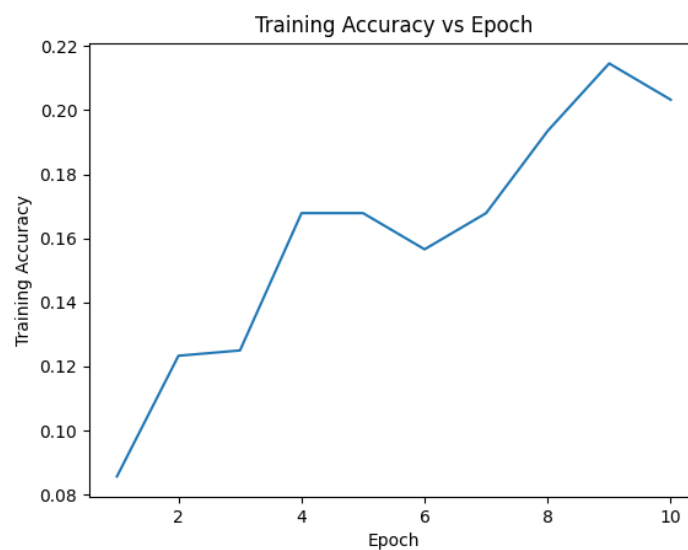
**Section:** A2

### 1.Training data:

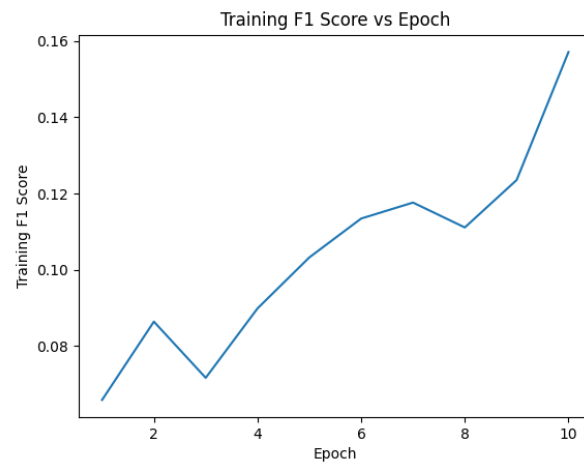
Cross entropy loss:



Accuracy:

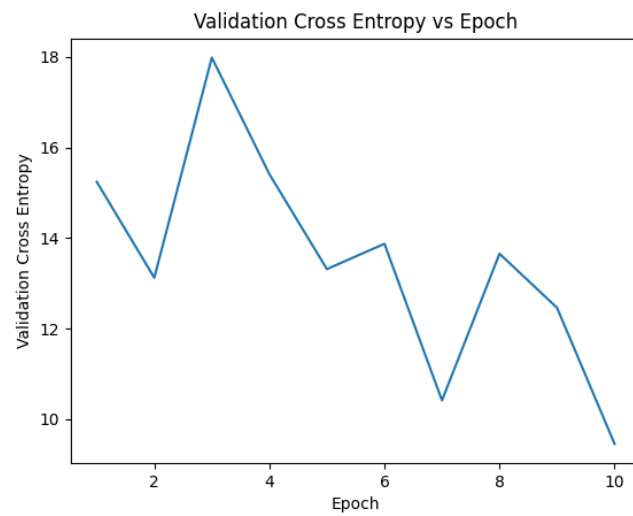


F1-score:

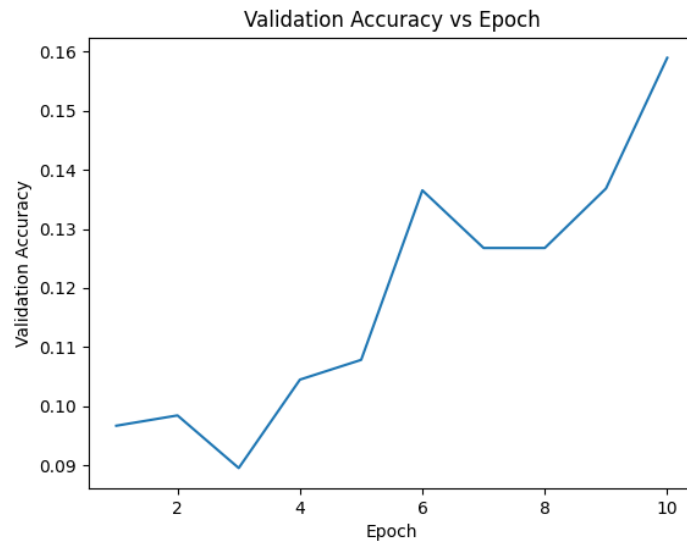


## 2.Validation data:

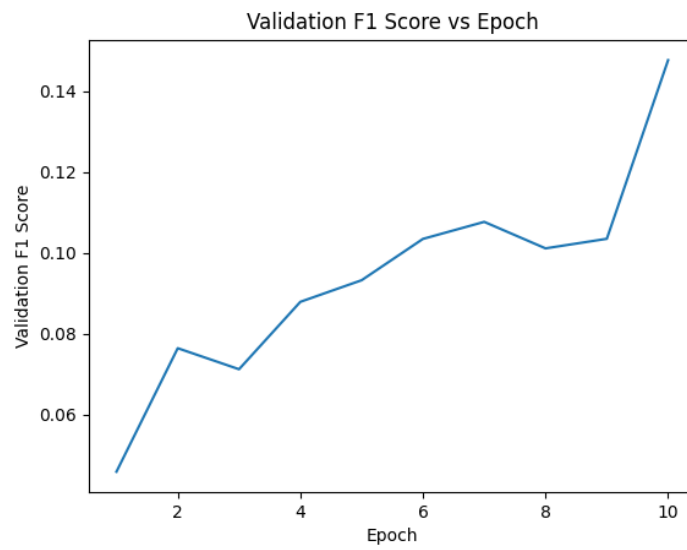
Cross Entropy loss:



Accuracy:



F1-score:



#### 4. Confusion Matrix:

```
[[ 47 354 72 160 108 128 75 55 280 48]
 [ 83 370 54 143 54 176 90 61 243 34]
 [ 56 334 86 130 94 122 103 65 341 32]
 [ 80 214 56 131 105 428 74 25 112 71]
 [ 28 361 42 137 54 193 104 40 333 60]
 [ 36 504 58 141 67 196 68 39 176 64]
 [ 62 424 50 61 87 405 57 36 82 49]
 [ 43 321 91 240 118 213 100 64 128 59]
 [123 294 29 85 124 148 68 38 383 35]
 [ 91 290 46 129 80 190 63 65 283 59]]
```

#### 4. Best Model:

Learning rate = 0.001

Accuracy = .2145

Macro f1-score = 0.123