

Starting Run ...

Train Loader Created.

Valid Loader Created.

Test Loader Created.

Done Model Loading.

Num Train Steps= 357, XRT World Size= 8.

Parallel Loader Created. Training ...

[xla:3]	Train:	Epoch: [1][356/357]	Loss: 4.4031e-02	F1: 0.95
[xla:1]	Train:	Epoch: [1][356/357]	Loss: 3.9928e-02	F1: 0.96
[xla:4]	Train:	Epoch: [1][356/357]	Loss: 4.0557e-02	F1: 0.96
[xla:2]	Train:	Epoch: [1][356/357]	Loss: 3.6746e-02	F1: 0.95
[xla:0]	Train:	Epoch: [1][356/357]	Loss: 3.3029e-02	F1: 0.97
[xla:7]	Train:	Epoch: [1][356/357]	Loss: 4.0470e-02	F1: 0.96
[xla:5]	Train:	Epoch: [1][356/357]	Loss: 4.3136e-02	F1: 0.95
[xla:6]	Train:	Epoch: [1][356/357]	Loss: 4.4686e-02	F1: 0.95

Finished training epoch 1

Parallel Loader Created. Validating ...

Val loss: 0.006818264722824097

F1 score: 0.9981893763780808

Confusion matrix:

```
[[164  1]
 [ 0 859]]
```

Parallel Loader Created. Testing ...

Predicted.

Parallel Loader Created. Training ...

[xla:4]	Train:	Epoch: [2][356/357]	Loss: 7.4457e-03	F1: 1.00
[xla:7]	Train:	Epoch: [2][356/357]	Loss: 7.4354e-03	F1: 0.99
[xla:0]	Train:	Epoch: [2][356/357]	Loss: 5.9327e-03	F1: 1.00
[xla:5]	Train:	Epoch: [2][356/357]	Loss: 1.0117e-02	F1: 1.00
[xla:2]	Train:	Epoch: [2][356/357]	Loss: 8.7704e-03	F1: 0.99
[xla:3]	Train:	Epoch: [2][356/357]	Loss: 6.9226e-03	F1: 1.00
[xla:1]	Train:	Epoch: [2][356/357]	Loss: 9.1582e-03	F1: 1.00
[xla:6]	Train:	Epoch: [2][356/357]	Loss: 6.9174e-03	F1: 1.00

Finished training epoch 2

Parallel Loader Created. Validating ...

Val loss: 0.006171166896820068

F1 score: 0.9946208599269823

Confusion matrix:

```
[[165  0]
 [ 3 856]]
```

Parallel Loader Created. Testing ...

Predicted.

Parallel Loader Created. Training ...

[xla:1]	Train:	Epoch: [3][356/357]	Loss: 5.3658e-03	F1: 1.00
[xla:2]	Train:	Epoch: [3][356/357]	Loss: 3.4437e-03	F1: 1.00
[xla:0]	Train:	Epoch: [3][356/357]	Loss: 5.5381e-03	F1: 1.00
[xla:3]	Train:	Epoch: [3][356/357]	Loss: 1.7065e-03	F1: 1.00
[xla:5]	Train:	Epoch: [3][356/357]	Loss: 3.5652e-03	F1: 1.00
[xla:4]	Train:	Epoch: [3][356/357]	Loss: 2.6878e-03	F1: 1.00
[xla:7]	Train:	Epoch: [3][356/357]	Loss: 1.4646e-03	F1: 1.00
[xla:6]	Train:	Epoch: [3][356/357]	Loss: 2.5671e-03	F1: 1.00

Finished training epoch 3

Parallel Loader Created. Validating ...

Val loss: 0.0019067823886871338

F1 score: 0.9981982203907258

Confusion matrix:

```
[[165  0]
```

```

[ 1 858]]
Parallel Loader Created. Testing ...
Predicted.
Parallel Loader Created. Training ...
[xla:1] Train: Epoch: [4][356/357] Loss: 4.6105e-03 F1: 1.00
[xla:7] Train: Epoch: [4][356/357] Loss: 5.2639e-03 F1: 1.00
[xla:0] Train: Epoch: [4][356/357] Loss: 2.3186e-03 F1: 1.00
[xla:2] Train: Epoch: [4][356/357] Loss: 2.5686e-03 F1: 1.00
[xla:3] Train: Epoch: [4][356/357] Loss: 1.9963e-03 F1: 1.00
[xla:4] Train: Epoch: [4][356/357] Loss: 3.1658e-03 F1: 1.00
[xla:6] Train: Epoch: [4][356/357] Loss: 3.5553e-03 F1: 1.00
[xla:5] Train: Epoch: [4][356/357] Loss: 4.8507e-03 F1: 1.00
Finished training epoch 4
Parallel Loader Created. Validating ...
Val loss: 0.007748335599899292
F1 score: 0.9964052012244783
Confusion matrix:
[[165  0]
 [ 2 857]]
Parallel Loader Created. Testing ...
Predicted.
Parallel Loader Created. Training ...
[xla:1] Train: Epoch: [5][356/357] Loss: 1.7457e-03 F1: 1.00
[xla:4] Train: Epoch: [5][356/357] Loss: 3.7825e-03 F1: 1.00
[xla:3] Train: Epoch: [5][356/357] Loss: 3.9721e-03 F1: 1.00
[xla:2] Train: Epoch: [5][356/357] Loss: 1.7150e-03 F1: 1.00
[xla:7] Train: Epoch: [5][356/357] Loss: 3.1186e-03 F1: 1.00
[xla:5] Train: Epoch: [5][356/357] Loss: 3.0903e-03 F1: 1.00
[xla:6] Train: Epoch: [5][356/357] Loss: 5.4382e-03 F1: 1.00
[xla:0] Train: Epoch: [5][356/357] Loss: 1.3916e-03 F1: 1.00
Finished training epoch 5
Parallel Loader Created. Validating ...
Val loss: 0.003835141658782959
F1 score: 0.9981893763780808
Confusion matrix:
[[164  1]
 [ 0 859]]
Parallel Loader Created. Testing ...
Predicted.
Parallel Loader Created. Training ...
[xla:1] Train: Epoch: [6][356/357] Loss: 4.0033e-03 F1: 1.00
[xla:3] Train: Epoch: [6][356/357] Loss: 2.0922e-03 F1: 1.00
[xla:6] Train: Epoch: [6][356/357] Loss: 6.7219e-04 F1: 1.00
[xla:7] Train: Epoch: [6][356/357] Loss: 3.1680e-03 F1: 1.00
[xla:4] Train: Epoch: [6][356/357] Loss: 3.9566e-03 F1: 1.00
[xla:0] Train: Epoch: [6][356/357] Loss: 3.9136e-04 F1: 1.00
[xla:2] Train: Epoch: [6][356/357] Loss: 9.4927e-04 F1: 1.00
[xla:5] Train: Epoch: [6][356/357] Loss: 9.4414e-04 F1: 1.00
Finished training epoch 6
Parallel Loader Created. Validating ...
Val loss: 0.00407758355140686
F1 score: 1.0
Confusion matrix:
[[165  0]
 [ 0 859]]
Parallel Loader Created. Testing ...
Predicted.

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Parallel Loader Created. Training ...

[xla:1] Train: Epoch: [7][356/357]	Loss: 6.9681e-04	F1: 1.00
[xla:6] Train: Epoch: [7][356/357]	Loss: 4.7184e-04	F1: 1.00
[xla:2] Train: Epoch: [7][356/357]	Loss: 8.5003e-04	F1: 1.00
[xla:4] Train: Epoch: [7][356/357]	Loss: 2.3427e-03	F1: 1.00
[xla:3] Train: Epoch: [7][356/357]	Loss: 1.2954e-03	F1: 1.00
[xla:5] Train: Epoch: [7][356/357]	Loss: 6.1967e-04	F1: 1.00
[xla:0] Train: Epoch: [7][356/357]	Loss: 5.3641e-04	F1: 1.00
[xla:7] Train: Epoch: [7][356/357]	Loss: 3.3967e-04	F1: 1.00

Finished training epoch 7

Parallel Loader Created. Validating ...

Val loss: 0.002268284559249878

F1 score: 0.9981982203907258

Confusion matrix:

```
[[165  0]
 [ 1 858]]
```

Parallel Loader Created. Testing ...

Predicted.

Parallel Loader Created. Training ...

[xla:1] Train: Epoch: [8][356/357]	Loss: 3.2318e-04	F1: 1.00
[xla:4] Train: Epoch: [8][356/357]	Loss: 1.0663e-03	F1: 1.00
[xla:2] Train: Epoch: [8][356/357]	Loss: 4.0750e-04	F1: 1.00
[xla:3] Train: Epoch: [8][356/357]	Loss: 1.1807e-04	F1: 1.00
[xla:6] Train: Epoch: [8][356/357]	Loss: 2.9839e-04	F1: 1.00
[xla:7] Train: Epoch: [8][356/357]	Loss: 1.2775e-03	F1: 1.00
[xla:5] Train: Epoch: [8][356/357]	Loss: 4.3259e-04	F1: 1.00
[xla:0] Train: Epoch: [8][356/357]	Loss: 6.5882e-04	F1: 1.00

Finished training epoch 8

Parallel Loader Created. Validating ...

Val loss: 0.0028145313262939453

F1 score: 0.9964052012244783

Confusion matrix:

```
[[165  0]
 [ 2 857]]
```

Parallel Loader Created. Testing ...

Predicted.

Parallel Loader Created. Training ...

[xla:1] Train: Epoch: [9][356/357]	Loss: 4.5298e-04	F1: 1.00
[xla:2] Train: Epoch: [9][356/357]	Loss: 5.4691e-04	F1: 1.00
[xla:0] Train: Epoch: [9][356/357]	Loss: 8.3550e-04	F1: 1.00
[xla:4] Train: Epoch: [9][356/357]	Loss: 1.2240e-03	F1: 1.00
[xla:3] Train: Epoch: [9][356/357]	Loss: 3.6112e-04	F1: 1.00
[xla:5] Train: Epoch: [9][356/357]	Loss: 5.0211e-04	F1: 1.00
[xla:6] Train: Epoch: [9][356/357]	Loss: 2.5577e-04	F1: 1.00
[xla:7] Train: Epoch: [9][356/357]	Loss: 9.0441e-04	F1: 1.00

Finished training epoch 9

Parallel Loader Created. Validating ...

Val loss: 0.004729956388473511

F1 score: 0.9981982203907258

Confusion matrix:

```
[[165  0]
 [ 1 858]]
```

Parallel Loader Created. Testing ...

Predicted.

Parallel Loader Created. Training ...

[xla:6] Train: Epoch: [10][356/357]	Loss: 6.7692e-05	F1: 1.00
[xla:1] Train: Epoch: [10][356/357]	Loss: 3.5734e-04	F1: 1.00

```
[xla:4] Train: Epoch: [10][356/357] Loss: 2.1963e-04 F1: 1.00
[xla:2] Train: Epoch: [10][356/357] Loss: 1.6106e-04 F1: 1.00
[xla:3] Train: Epoch: [10][356/357] Loss: 2.3295e-04 F1: 1.00
[xla:7] Train: Epoch: [10][356/357] Loss: 2.7251e-04 F1: 1.00
[xla:0] Train: Epoch: [10][356/357] Loss: 1.5561e-04 F1: 1.00
[xla:5] Train: Epoch: [10][356/357] Loss: 9.6265e-05 F1: 1.00
```

Finished training epoch 10

Parallel Loader Created. Validating ...

Val loss: 0.0031367242336273193

F1 score: 0.9981982203907258

Confusion matrix:

```
[[165  0]
 [ 1 858]]
```

Parallel Loader Created. Testing ...

Predicted.