

Swahili transformer model bake off

pretrained swahili transformer, lr=0.0001, pos tagging

```
2022-06-11 17:40:51,753 - INFO - allennlp.common.util - Metrics: {
  "best_epoch": 4,
  "peak_worker_0_memory_MB": 5448.7890625,
  "peak_gpu_0_memory_MB": 9332.94873046875,
  "training_duration": "1:26:00.349669",
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  "training_accuracy3": 0.9999548500435081,
  "training_precision": 0.9857814311981201,
  "training_recall": 0.9809743165969849,
  "training_fscore": 0.9833330512046814,
  "training_loss": 0.008818848443899869,
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  "validation_accuracy3": 0.9994341834054076,
  "validation_precision": 0.9857875108718872,
  "validation_recall": 0.9809861779212952,
  "validation_fscore": 0.9833420515060425,
  "validation_loss": 0.06279067079275392,
  "best_validation_accuracy": 0.989734470355252, "best_validation_accuracy3":
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  "best_validation_precision": 0.9777423143386841, "best_validation_recall":
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  "best_validation_fscore": 0.9735202789306641, "best_validation_loss":
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  "test_precision": 0.9858008623123169,
```

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"test_recall": 0.9810028076171875,
"test_fscore": 0.9833571910858154,
"test_loss": 0.0319001576157281
}

```

pretrained swahili transformer, lr=0.00001, pos tagging

```

"best_epoch": 7,
"peak_worker_0_memory_MB": 5449.3203125,
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"test_accuracy": 0.9962835249042146,
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"test_recall": 0.9567817449569702,
"test_fscore": 0.9660264253616333,
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}

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pretrained swahili transformer, lr=0.0001, crf, pos tagging

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2022-06-11 22:44:50,984 - INFO - allennlp.common.util - Metrics: {
  "best_epoch": 4,
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  "training_duration": "2:12:03.720062",
  "epoch": 9,
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  "training_loss": 1.5775271221179867,
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  "validation_accuracy": 0.9919573212625793,
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  "validation_loss": 8.17987885513926,
  "best_validation_accuracy": 0.9915127510811138, "best_validation_accuracy3":
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  "best_validation_loss": 7.377661480167048,
  "test_accuracy": 0.9957471264367816,
  "test_accuracy3": 0.9962835249042146,
  "test_loss": 3.963569987903942
}
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pretrained swahili transformer, lr=0.0001, helsinki pos tagging

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{
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"test_accuracy3": 0.9998174716168364,  
"test_precision": 0.9467272162437439,  
"test_recall": 0.8757625222206116,  
"test_fscore": 0.8999730348587036,  
"test_loss": 0.02968891077139415  
}
```

Revision #3

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Updated Mon, Jun 13, 2022 2:36 AM by [kenneth](#)