# RobertaTokenizer

Chart, line chart

Description automatically generated

* Epoch 2: F1 score = 0.592, Precision = 0.587, Recall = 0.597, Accuracy = 0.929
* Epoch 5: F1 score = 0.586, Precision = 0.598, Recall = 0.575, Accuracy = 0.930
* Epoch 9: F1 score = 0.566, Precision = 0.639, Recall = 0.508, Accuracy = 0.933
* Epoch 0: F1 score = 0.559, Precision = 0.462, Recall = 0.707, Accuracy = 0.903
* Epoch 7: F1 score = 0.546, Precision = 0.614, Recall = 0.492, Accuracy = 0.929

# RobertaTokenizerFast

Chart, line chart

Description automatically generated

* Epoch 2: F1 score = 0.592, Precision = 0.587, Recall = 0.597, Accuracy = 0.929
* Epoch 5: F1 score = 0.586, Precision = 0.598, Recall = 0.575, Accuracy = 0.930
* Epoch 9: F1 score = 0.566, Precision = 0.639, Recall = 0.508, Accuracy = 0.933
* Epoch 0: F1 score = 0.559, Precision = 0.462, Recall = 0.707, Accuracy = 0.903
* Epoch 7: F1 score = 0.546, Precision = 0.614, Recall = 0.492, Accuracy = 0.929

# Bert-Base-Cased

Chart, line chart

Description automatically generated

* Epoch 2: F1 score = 0.299, Precision = 0.202, Recall = 0.575, Accuracy = 0.767
* Epoch 3: F1 score = 0.288, Precision = 0.211, Recall = 0.453, Accuracy = 0.806
* Epoch 5: F1 score = 0.268, Precision = 0.318, Recall = 0.232, Accuracy = 0.891
* Epoch 1: F1 score = 0.263, Precision = 0.246, Recall = 0.282, Accuracy = 0.863
* Epoch 4: F1 score = 0.247, Precision = 0.311, Recall = 0.204, Accuracy = 0.892

# Ada Scheduler

Chart, line chart

Description automatically generated

* Epoch 4: F1 score = 0.577, Precision = 0.498, Recall = 0.685, Accuracy = 0.913
* Epoch 2: F1 score = 0.574, Precision = 0.528, Recall = 0.630, Accuracy = 0.919
* Epoch 7: F1 score = 0.572, Precision = 0.528, Recall = 0.624, Accuracy = 0.919
* Epoch 8: F1 score = 0.571, Precision = 0.635, Recall = 0.519, Accuracy = 0.933
* Epoch 3: F1 score = 0.570, Precision = 0.513, Recall = 0.641, Accuracy = 0.916

# Constant Warmup

Chart, line chart

Description automatically generated

* Epoch 9: F1 score = 0.588, Precision = 0.585, Recall = 0.591, Accuracy = 0.928
* Epoch 2: F1 score = 0.582, Precision = 0.568, Recall = 0.597, Accuracy = 0.926
* Epoch 3: F1 score = 0.576, Precision = 0.530, Recall = 0.630, Accuracy = 0.920
* Epoch 7: F1 score = 0.565, Precision = 0.524, Recall = 0.613, Accuracy = 0.918
* Epoch 0: F1 score = 0.549, Precision = 0.512, Recall = 0.591, Accuracy = 0.916

# Cosine Hard Restarts

Chart, line chart

Description automatically generated

* Epoch 6: F1 score = 0.571, Precision = 0.641, Recall = 0.514, Accuracy = 0.933
* Epoch 2: F1 score = 0.567, Precision = 0.577, Recall = 0.558, Accuracy = 0.926
* Epoch 5: F1 score = 0.549, Precision = 0.711, Recall = 0.448, Accuracy = 0.936
* Epoch 0: F1 score = 0.549, Precision = 0.512, Recall = 0.591, Accuracy = 0.916
* Epoch 1: F1 score = 0.546, Precision = 0.447, Recall = 0.702, Accuracy = 0.899

# Cosine Warmup

Chart, line chart

Description automatically generated

* Epoch 6: F1 score = 0.571, Precision = 0.641, Recall = 0.514, Accuracy = 0.933
* Epoch 2: F1 score = 0.567, Precision = 0.577, Recall = 0.558, Accuracy = 0.926
* Epoch 5: F1 score = 0.549, Precision = 0.711, Recall = 0.448, Accuracy = 0.936
* Epoch 0: F1 score = 0.549, Precision = 0.512, Recall = 0.591, Accuracy = 0.916
* Epoch 1: F1 score = 0.546, Precision = 0.447, Recall = 0.702, Accuracy = 0.899

# Linear Warmup

Chart, line chart

Description automatically generated

* Epoch 7: F1 score = 0.598, Precision = 0.623, Recall = 0.575, Accuracy = 0.933
* Epoch 4: F1 score = 0.591, Precision = 0.622, Recall = 0.564, Accuracy = 0.933
* Epoch 6: F1 score = 0.587, Precision = 0.658, Recall = 0.530, Accuracy = 0.935
* Epoch 5: F1 score = 0.570, Precision = 0.711, Recall = 0.475, Accuracy = 0.938
* Epoch 2: F1 score = 0.567, Precision = 0.471, Recall = 0.713, Accuracy = 0.906

# Learning Rate 1e-4

Chart, line chart

Description automatically generated

* Epoch 4: F1 score = 0.527, Precision = 0.584, Recall = 0.481, Accuracy = 0.925
* Epoch 3: F1 score = 0.527, Precision = 0.486, Recall = 0.575, Accuracy = 0.911
* Epoch 1: F1 score = 0.526, Precision = 0.559, Recall = 0.497, Accuracy = 0.923
* Epoch 6: F1 score = 0.486, Precision = 0.626, Recall = 0.398, Accuracy = 0.927
* Epoch 0: F1 score = 0.481, Precision = 0.554, Recall = 0.425, Accuracy = 0.921

# Learning Rate 1e-5

Chart, line chart

Description automatically generated

* Epoch 7: F1 score = 0.601, Precision = 0.599, Recall = 0.602, Accuracy = 0.931
* Epoch 9: F1 score = 0.586, Precision = 0.647, Recall = 0.536, Accuracy = 0.935
* Epoch 8: F1 score = 0.585, Precision = 0.621, Recall = 0.552, Accuracy = 0.932
* Epoch 6: F1 score = 0.579, Precision = 0.577, Recall = 0.580, Accuracy = 0.927
* Epoch 5: F1 score = 0.578, Precision = 0.620, Recall = 0.541, Accuracy = 0.932

# Learning Rate 3e-4

Chart, line chart

Description automatically generated

* Epoch 0: F1 score = 0.159, Precision = 0.086, Recall = 1.000, Accuracy = 0.086
* Epoch 1: F1 score = 0.159, Precision = 0.086, Recall = 1.000, Accuracy = 0.086
* Epoch 2: F1 score = 0.159, Precision = 0.086, Recall = 1.000, Accuracy = 0.086
* Epoch 9: F1 score = 0.159, Precision = 0.086, Recall = 1.000, Accuracy = 0.086
* Epoch 3: F1 score = 0.000, Precision = 0.000, Recall = 0.000, Accuracy = 0.914

# Data Augmentation

Chart, line chart

Description automatically generated

* Epoch 3: F1 score = 0.484, Precision = 0.481, Recall = 0.486, Accuracy = 0.910
* Epoch 1: F1 score = 0.482, Precision = 0.392, Recall = 0.624, Accuracy = 0.884
* Epoch 6: F1 score = 0.463, Precision = 0.545, Recall = 0.403, Accuracy = 0.919
* Epoch 4: F1 score = 0.454, Precision = 0.456, Recall = 0.453, Accuracy = 0.906
* Epoch 7: F1 score = 0.428, Precision = 0.569, Recall = 0.343, Accuracy = 0.921