Epoch 1/15

1682/1682 [==============================] - 8621s 5s/step - loss: 4.1525 - accuracy: 0.4982 - val\_loss: 1.3131 - val\_accuracy: 0.4922 - lr: 5.0000e-05

Epoch 2/15

1682/1682 [==============================] - 8564s 5s/step - loss: 1.1058 - accuracy: 0.4991 - val\_loss: 0.8560 - val\_accuracy: 0.4966 - lr: 5.0000e-05

Epoch 3/15

1682/1682 [==============================] - 8582s 5s/step - loss: 0.8027 - accuracy: 0.5018 - val\_loss: 0.7367 - val\_accuracy: 0.5000 - lr: 5.0000e-05

Epoch 4/15

1682/1682 [==============================] - 8601s 5s/step - loss: 0.7207 - accuracy: 0.4995 - val\_loss: 0.7128 - val\_accuracy: 0.5000 - lr: 5.0000e-05

Epoch 5/15

1682/1682 [==============================] - 8643s 5s/step - loss: 0.7090 - accuracy: 0.4993 - val\_loss: 0.7051 - val\_accuracy: 0.5000 - lr: 5.0000e-05

Epoch 6/15

1682/1682 [==============================] - 9159s 5s/step - loss: 0.7036 - accuracy: 0.5003 - val\_loss: 0.7018 - val\_accuracy: 0.5000 - lr: 5.0000e-05

Epoch 7/15

1682/1682 [==============================] - 8827s 5s/step - loss: 0.6977 - accuracy: 0.5003 - val\_loss: 0.6946 - val\_accuracy: 0.5000 - lr: 5.0000e-05

Epoch 8/15

1682/1682 [==============================] - 8959s 5s/step - loss: 0.6936 - accuracy: 0.4995 - val\_loss: 0.6932 - val\_accuracy: 0.5000 - lr: 5.0000e-05

Epoch 9/15

1682/1682 [==============================] - 9465s 6s/step - loss: 0.6932 - accuracy: 0.5001 - val\_loss: 0.6932 - val\_accuracy: 0.5000 - lr: 5.0000e-05

Epoch 10/15

1682/1682 [==============================] - 8915s 5s/step - loss: 0.6932 - accuracy: 0.4994 - val\_loss: 0.6932 - val\_accuracy: 0.5000 - lr: 5.0000e-05

Epoch 11/15

1682/1682 [==============================] - 8636s 5s/step - loss: 0.6932 - accuracy: 0.5000 - val\_loss: 0.6932 - val\_accuracy: 0.5000 - lr: 2.5000e-05

Epoch 12/15

1682/1682 [==============================] - 8607s 5s/step - loss: 0.6932 - accuracy: 0.4998 - val\_loss: 0.6932 - val\_accuracy: 0.5000 - lr: 2.5000e-05

2883/2883 [==============================] - 431s 149ms/step

Evaluation Metrics:

Precision: 0.5000

Recall: 1.0000

F1 Score: 0.6667

ROC AUC: 0.5000

PR AUC: 0.5000

MCC: 0.0000

In [3]: y\_pred = (test\_scores > 0.6).astype(int)

...: y\_true = y\_test.astype(int)

...:

...: # Calculate evaluation metrics

...: precision = precision\_score(y\_true, y\_pred)

...: recall = recall\_score(y\_true, y\_pred)

...: f1 = f1\_score(y\_true, y\_pred)

...: roc\_auc = roc\_auc\_score(y\_true, test\_scores)

...: pr\_auc = average\_precision\_score(y\_true, test\_scores)

...: mcc = matthews\_corrcoef(y\_true, y\_pred)

...:

...: # Display evaluation metrics

...: print("\nEvaluation Metrics:")

...: print(f'Precision: {precision:.4f}')

...: print(f'Recall: {recall:.4f}')

...: print(f'F1 Score: {f1:.4f}')

...: print(f'ROC AUC: {roc\_auc:.4f}')

...: print(f'PR AUC: {pr\_auc:.4f}')

...: print(f'MCC: {mcc:.4f}')

C:\Users\skape\PycharmProjects\Thesis\_tensorflow\.venv\lib\site-packages\sklearn\metrics\\_classification.py:1471: UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 due to no predicted samples. Use `zero\_division` parameter to control this behavior.

\_warn\_prf(average, modifier, msg\_start, len(result))

Evaluation Metrics:

Precision: 0.0000

Recall: 0.0000

F1 Score: 0.0000

ROC AUC: 0.5000

PR AUC: 0.5000

MCC: 0.0000

Εικόνα που περιέχει κείμενο, στιγμιότυπο οθόνης, γραμμή, διάγραμμα

Περιγραφή που δημιουργήθηκε αυτόματα

Εικόνα που περιέχει κείμενο, στιγμιότυπο οθόνης, διάγραμμα, λογισμικό

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