

AI-Generated Text (AIGT) Detector

bloomz-560m-academic-detector

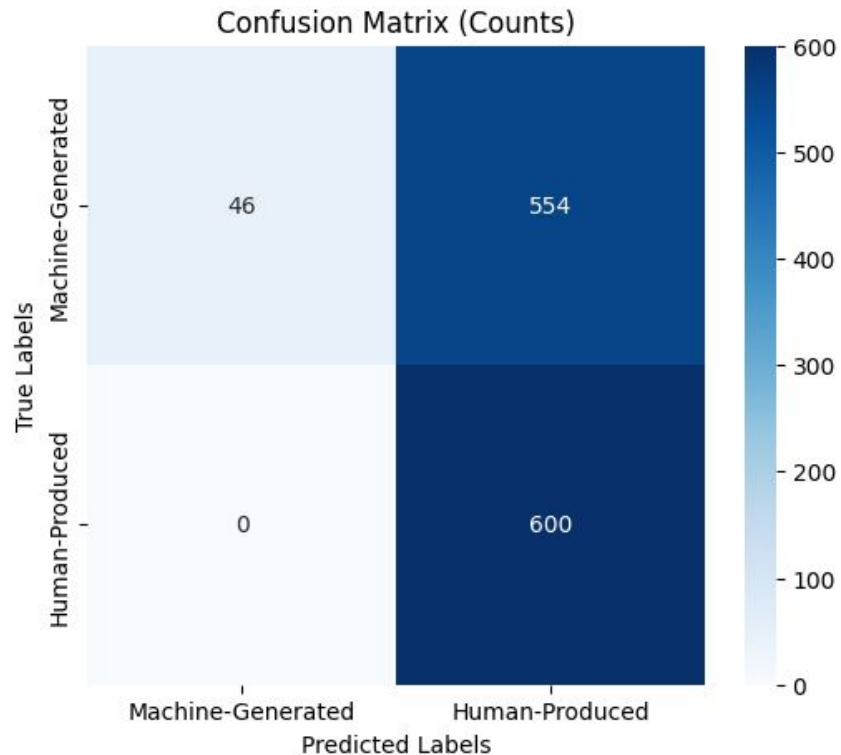
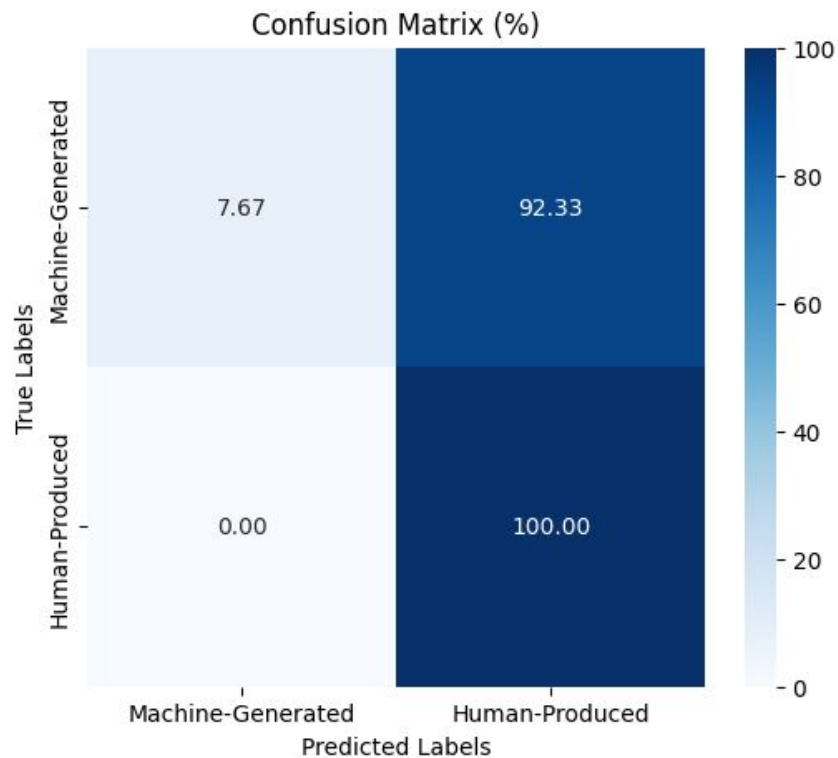
Bloomz-560m-academic-detector: Pre-trained

Arxiv_bloomz_test:

Accuracy: 0.5383

Precision: 1.0000

Recall: 0.0767



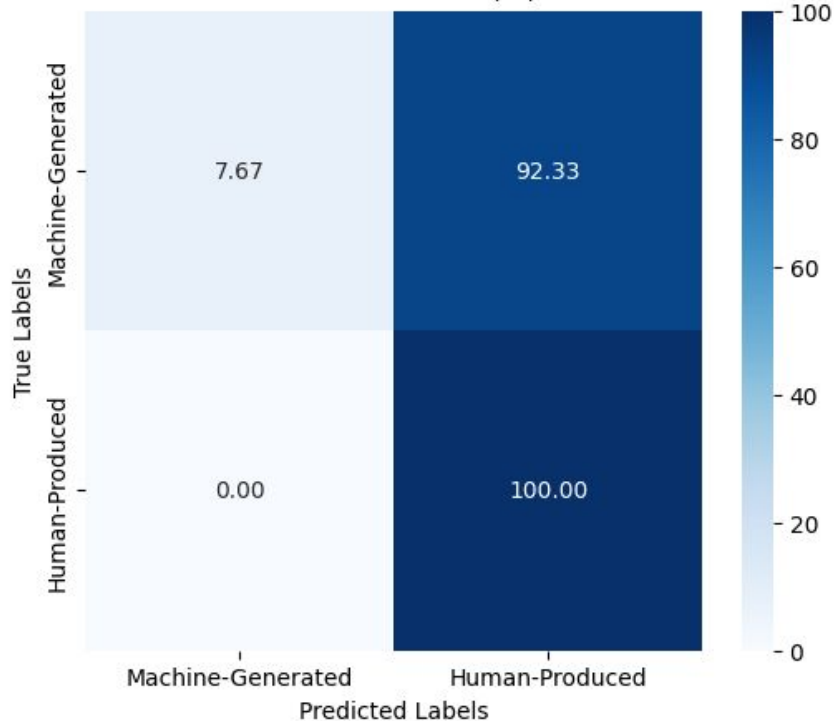
arxiv_bloomz_paraphrased_test:

Accuracy: 0.5383

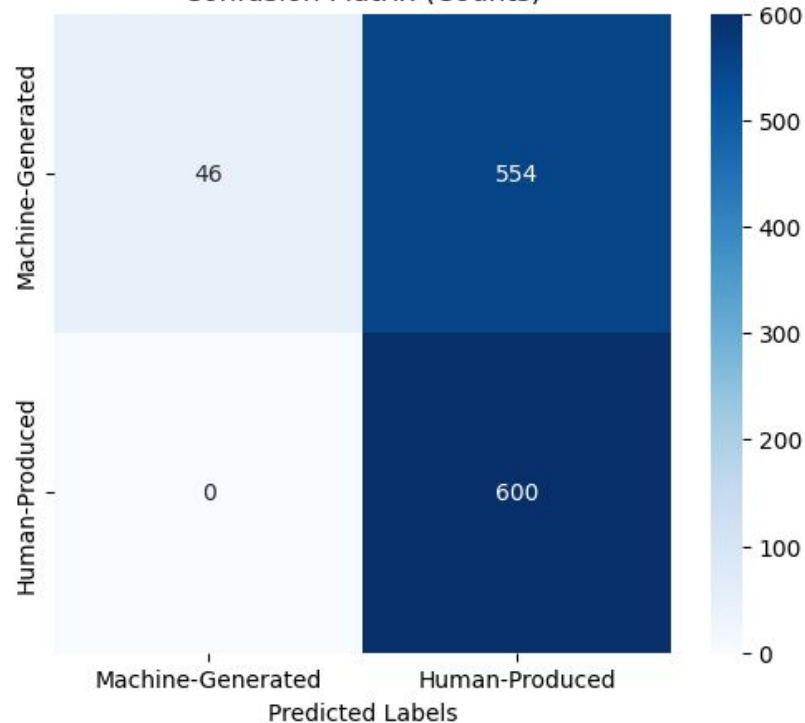
Precision: 1.0000

Recall: 0.0767

Confusion Matrix (%)



Confusion Matrix (Counts)

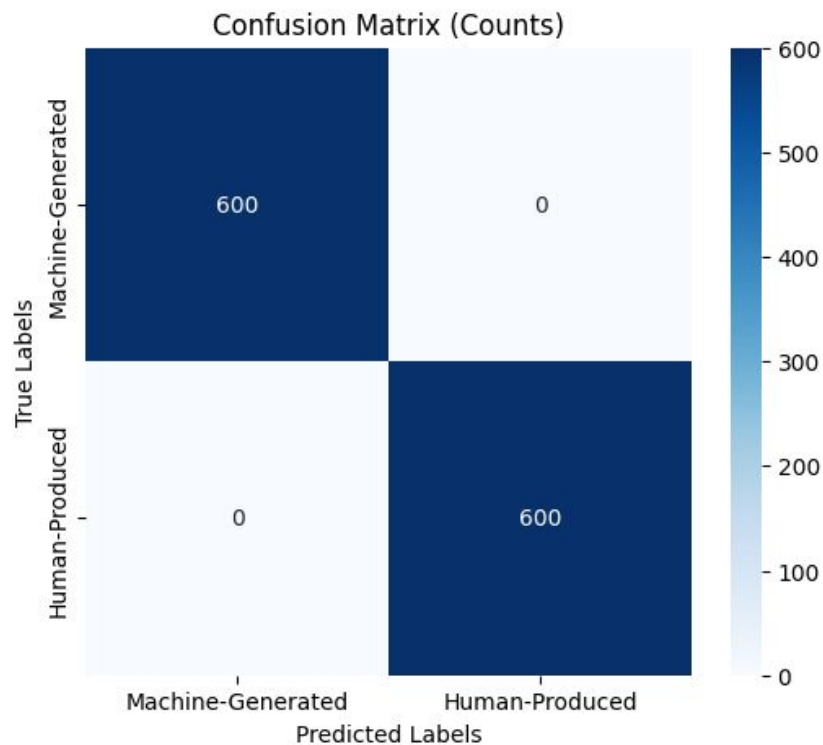
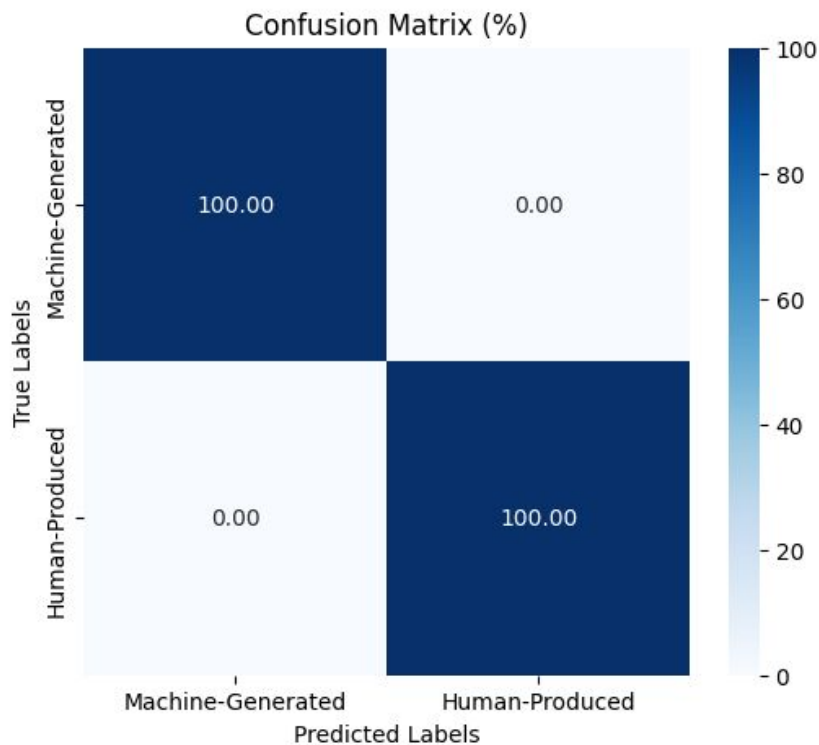


arxiv_chatGPT_test:

Accuracy: 1.0000

Precision: 1.0000

Recall: 1.0000

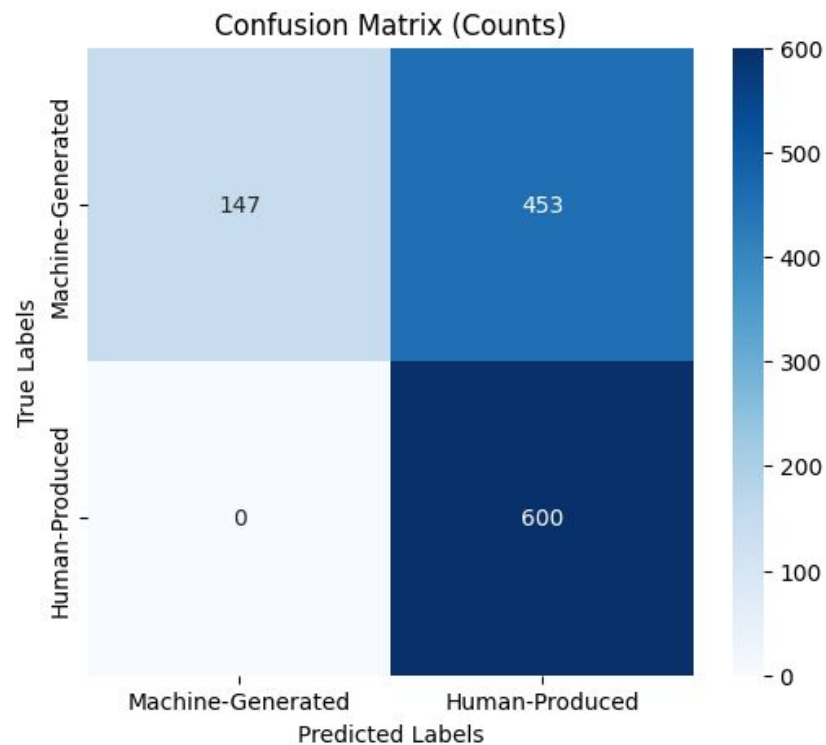
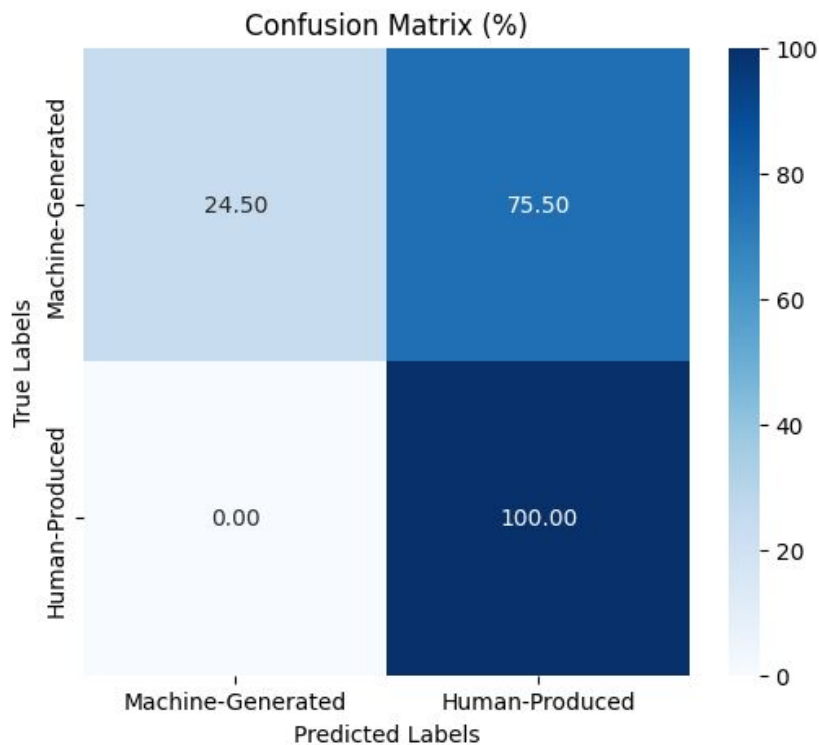


arxiv_cohere_test:

Accuracy: 0.6225

Precision: 1.0000

Recall: 0.2450

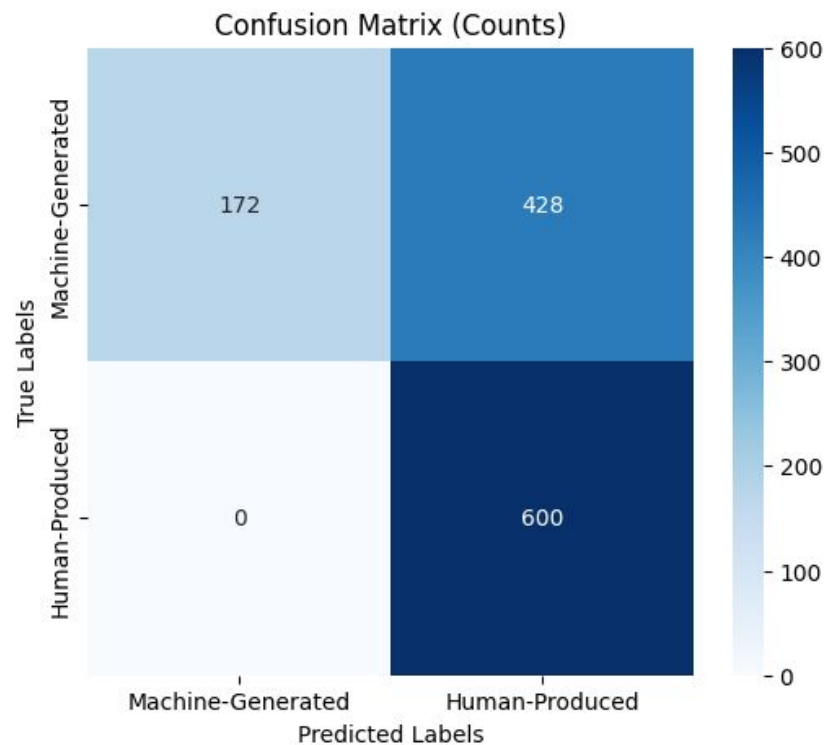
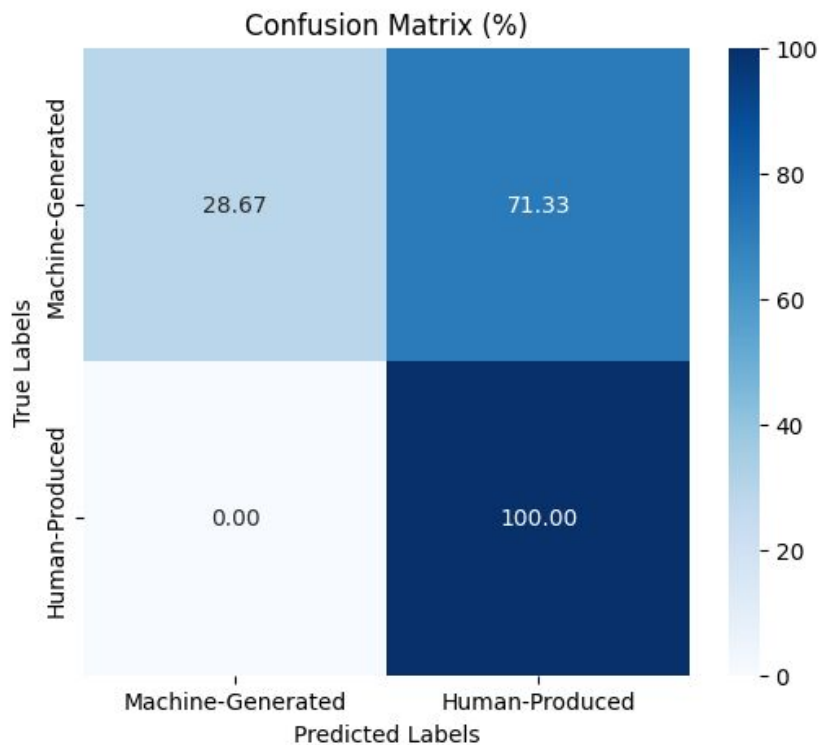


arxiv_davinci_test:

Accuracy: 0.6433

Precision: 1.0000

Recall: 0.2867

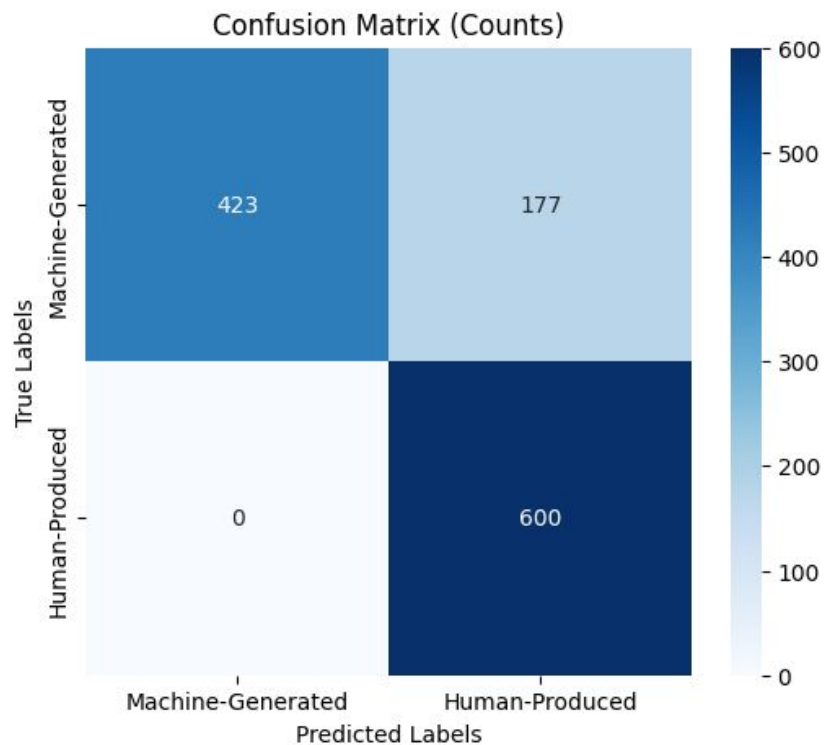
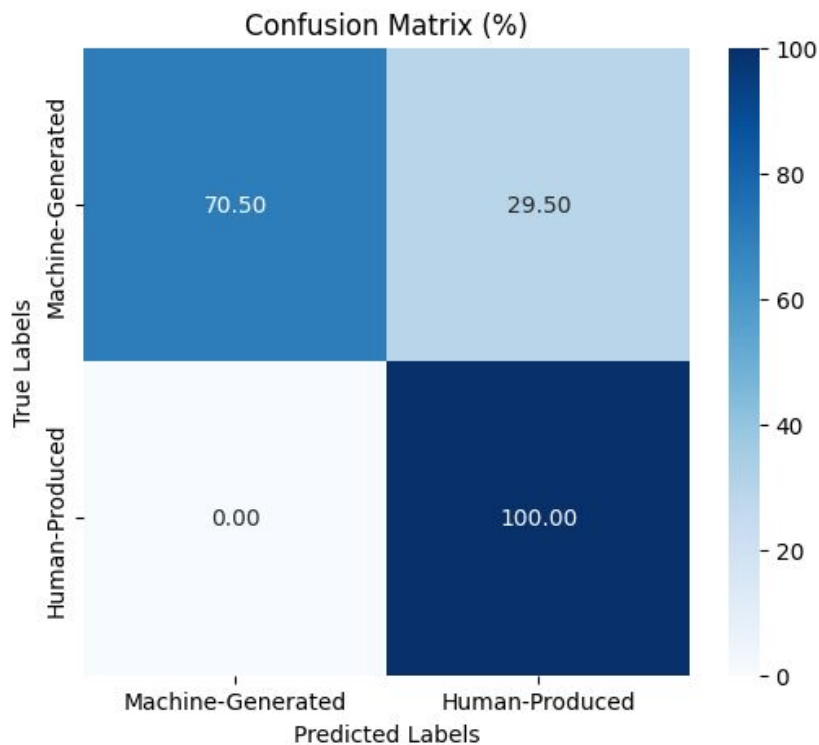


arxiv_flant5_test:

Accuracy: 0.8525

Precision: 1.0000

Recall: 0.7050



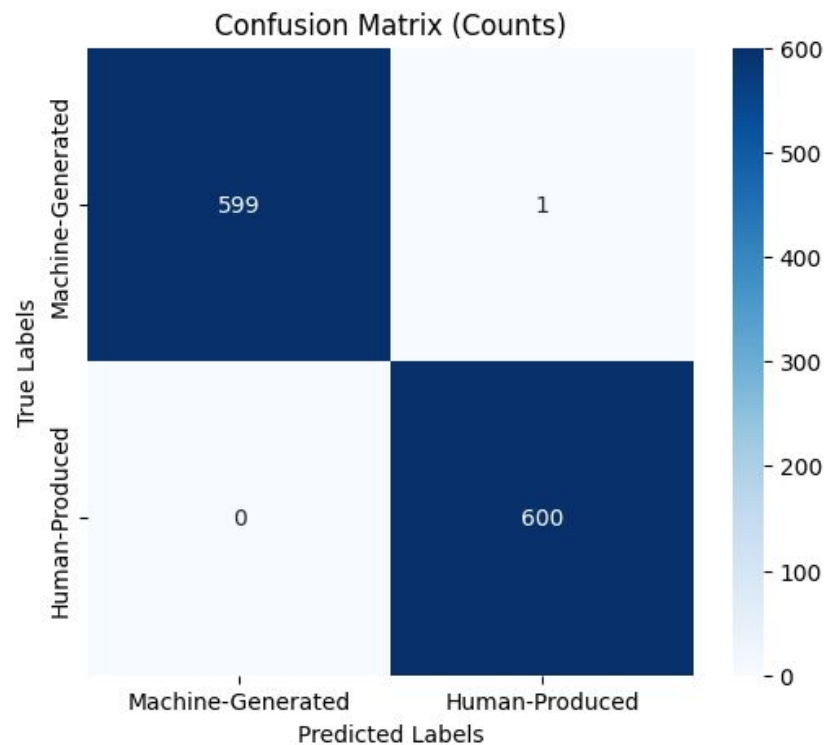
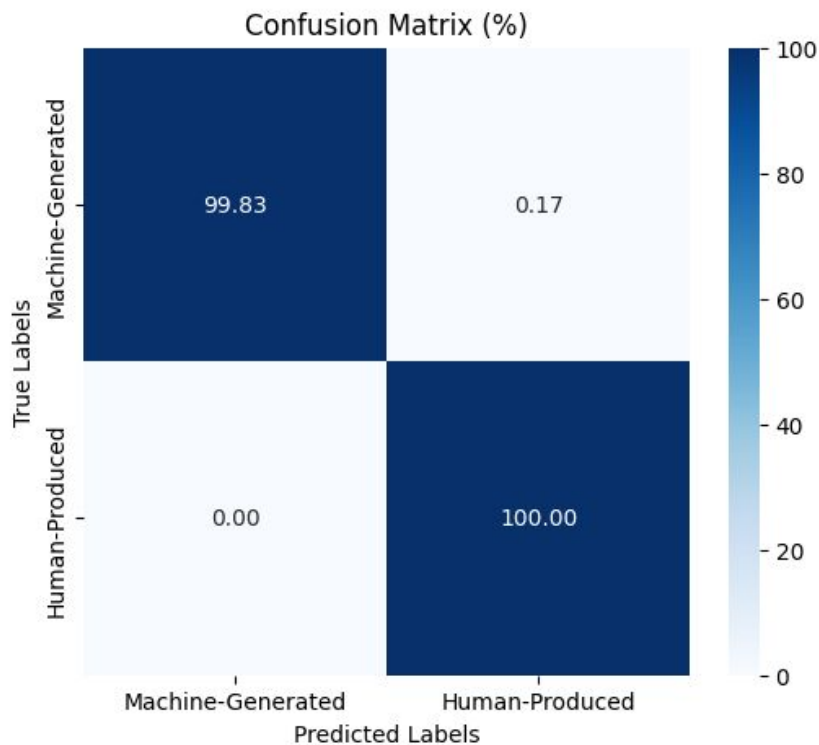
Bloomz-560m-academic-detector:
Fine-tuned using arxiv_bloomz

arxiv_bloomz_test:

Accuracy: 0.9992

Precision: 1.0000

Recall: 0.9983

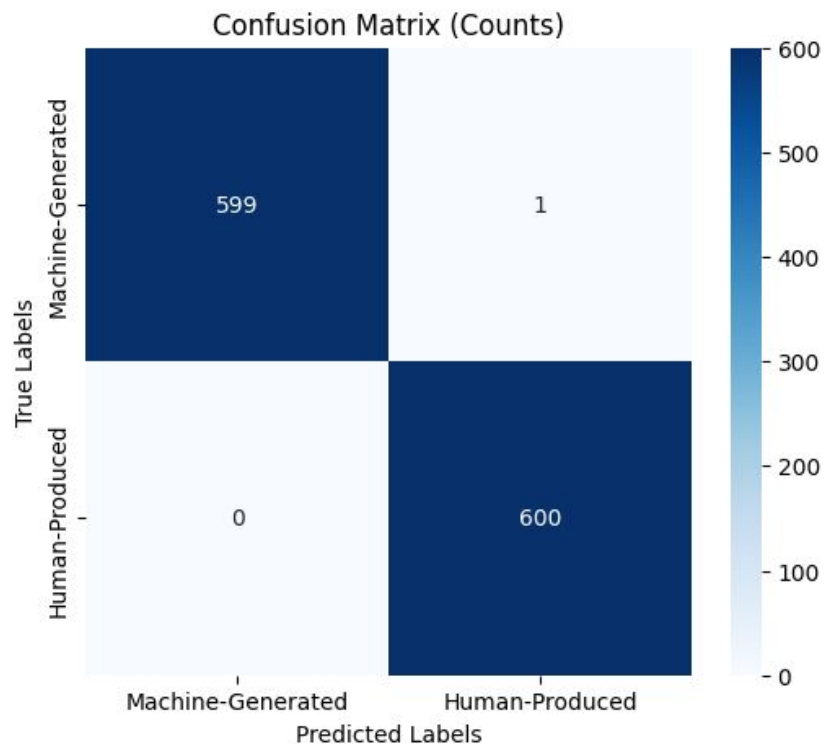
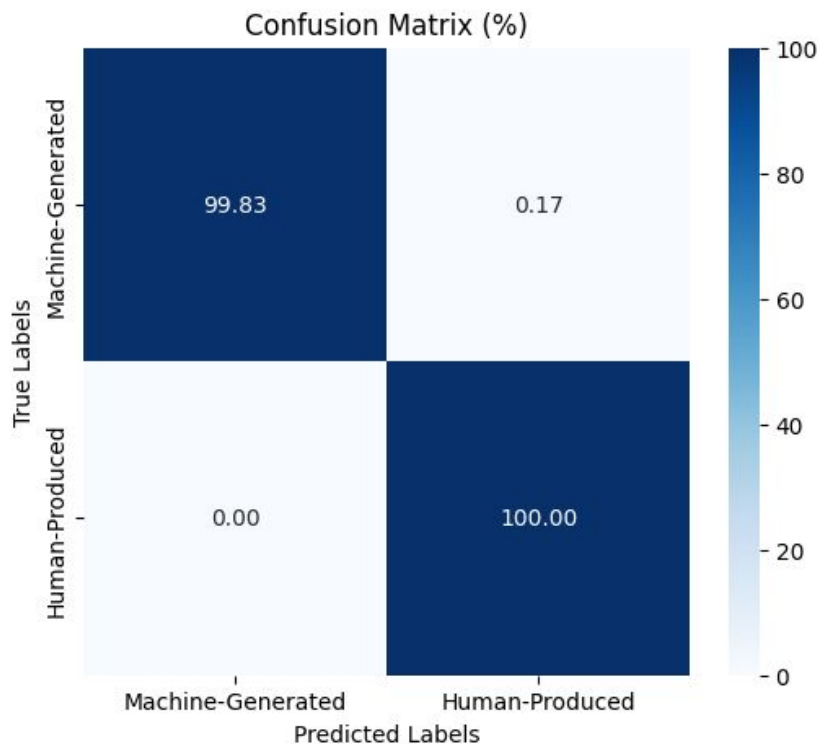


arxiv_bloomz_paraphrased_test:

Accuracy: 0.9992

Precision: 1.0000

Recall: 0.9983

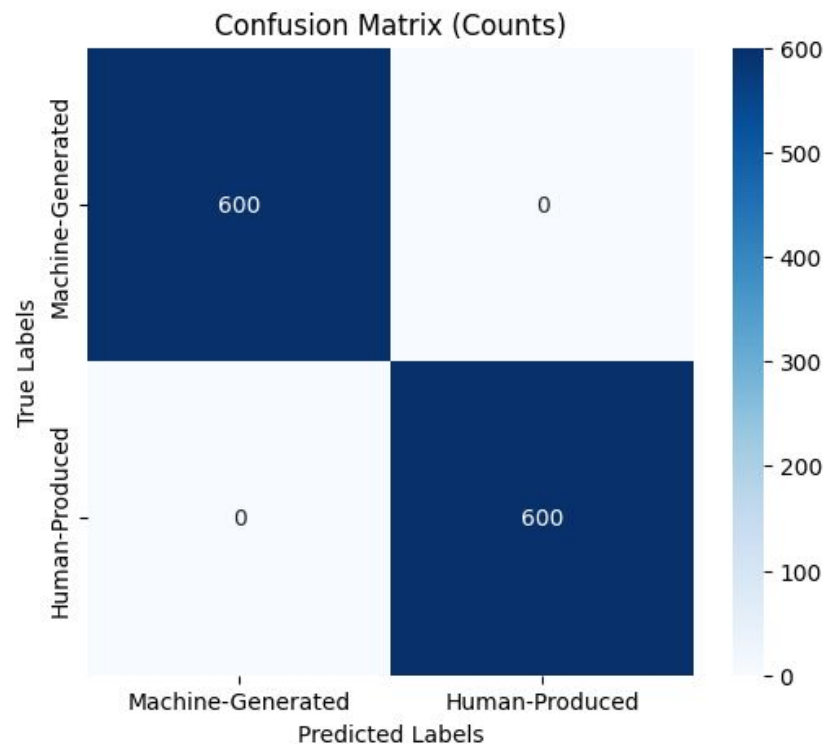
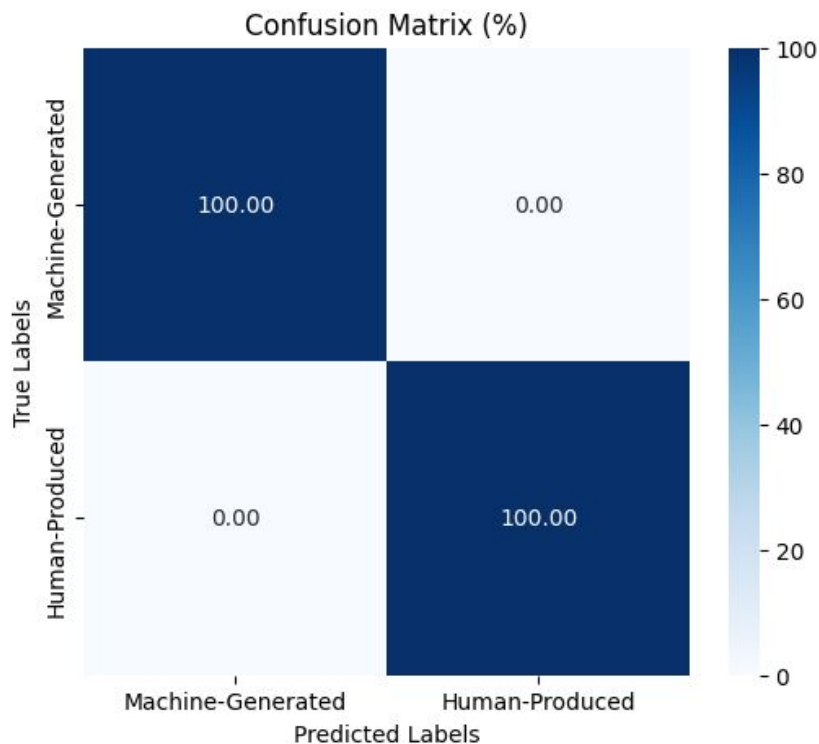


arxiv_chatGPT_test:

Accuracy: 1.0000

Precision: 1.0000

Recall: 1.0000

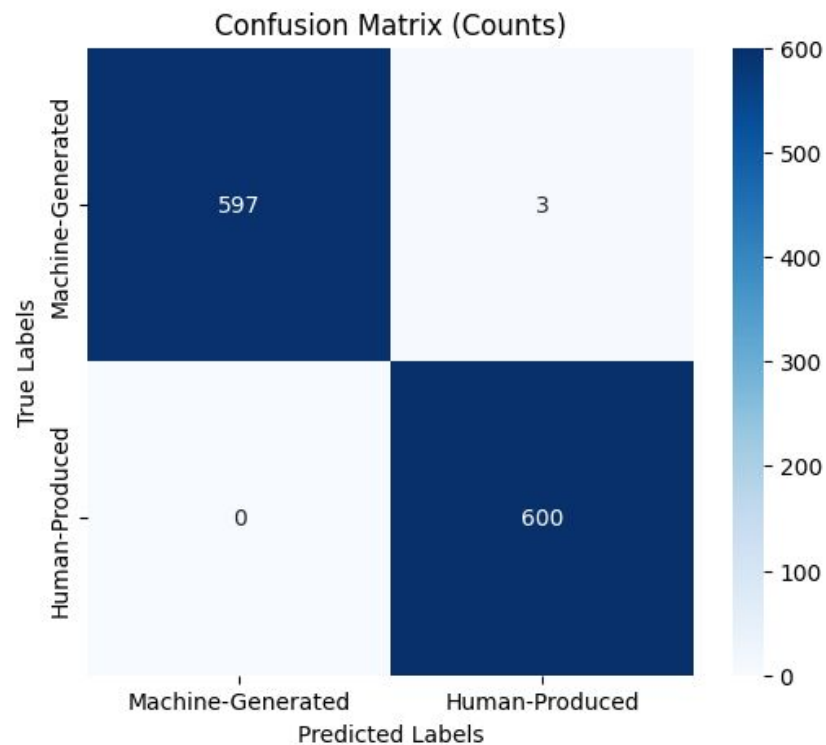
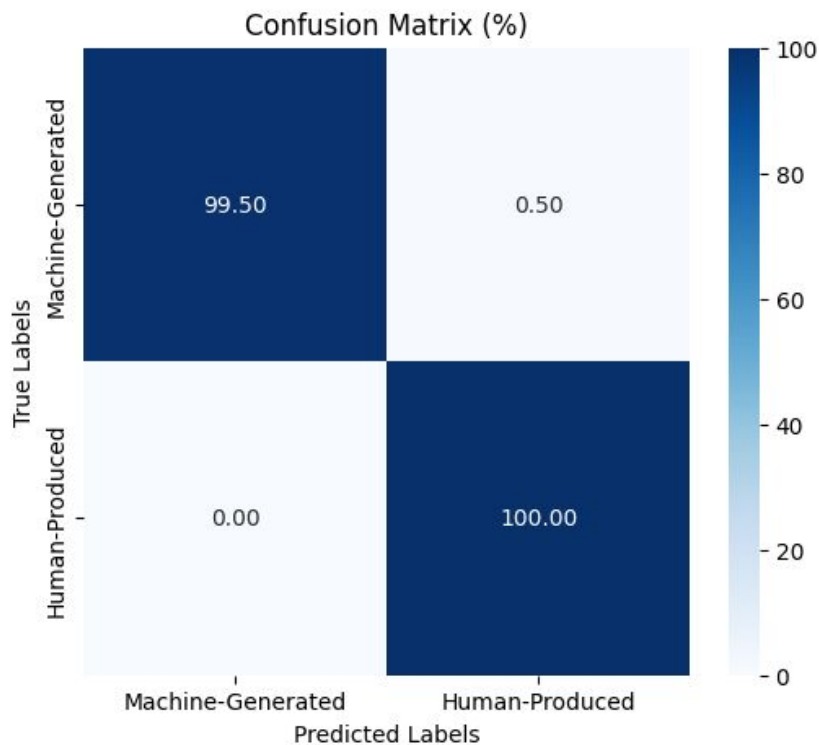


arxiv_cohere_test:

Accuracy: 0.9975

Precision: 1.0000

Recall: 0.9950

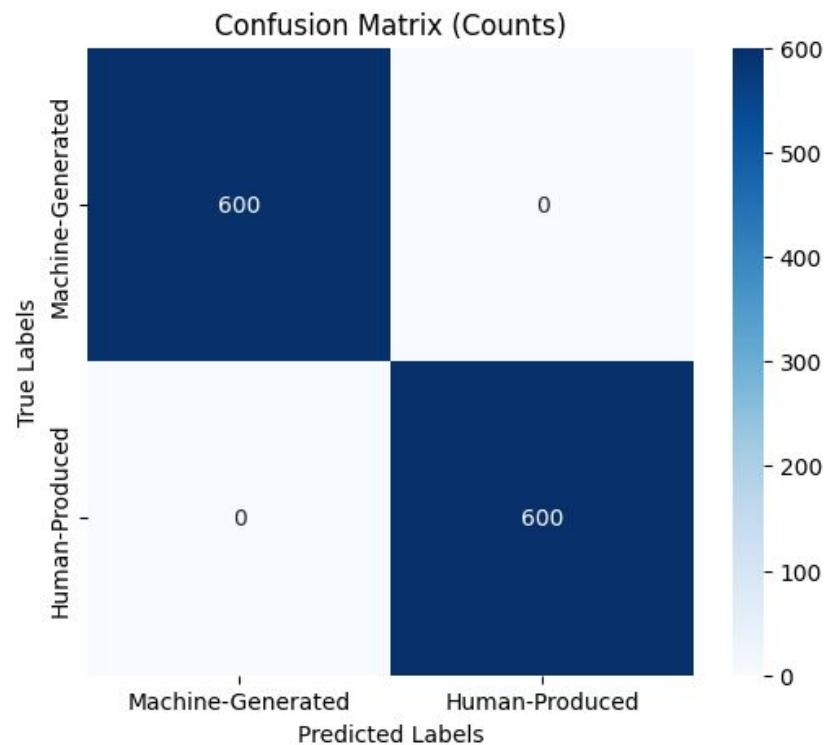
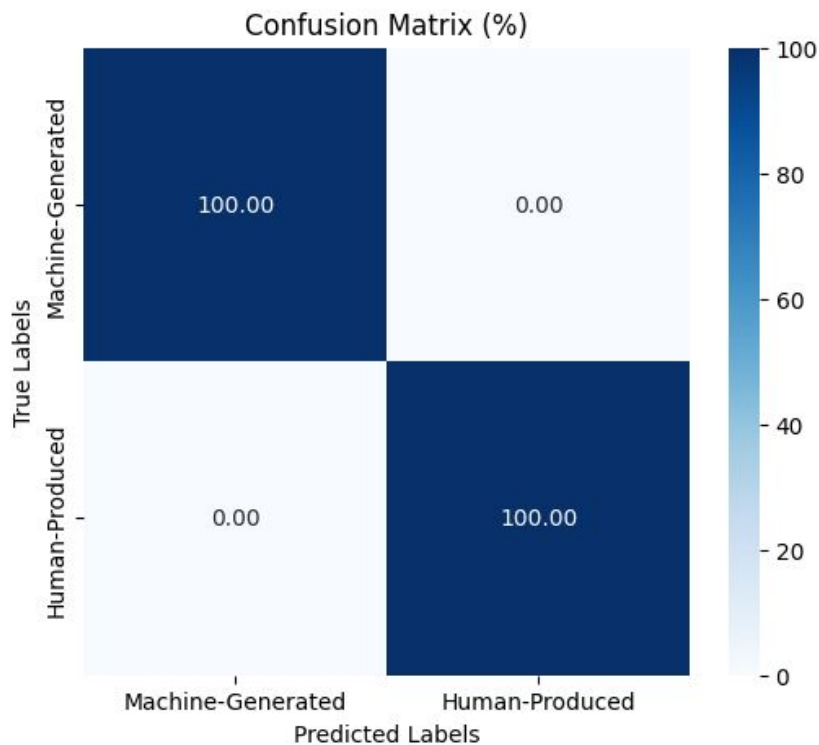


arxiv_flant5_test:

Accuracy: 1.0000

Precision: 1.0000

Recall: 1.0000

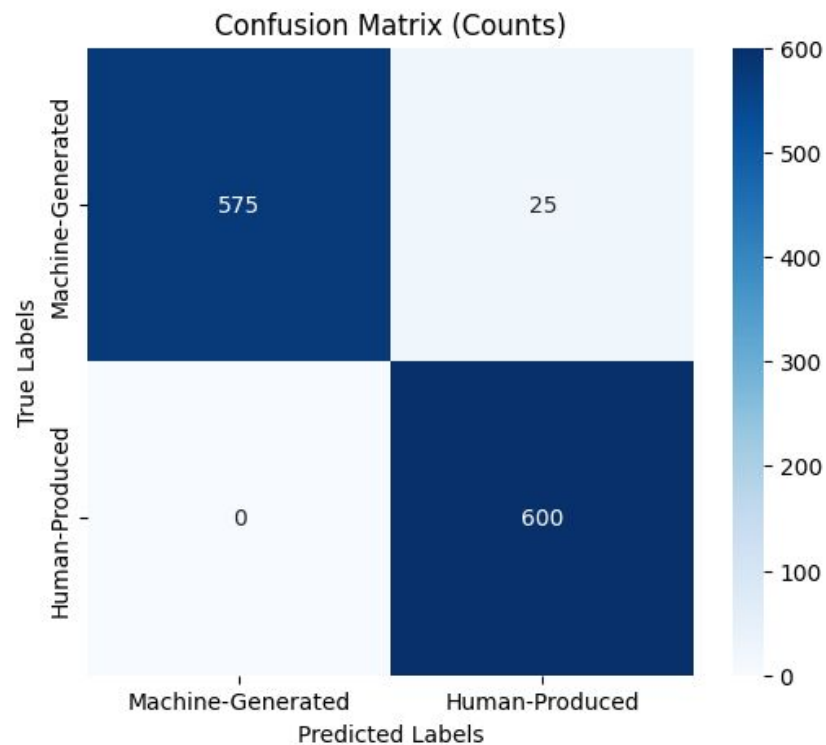
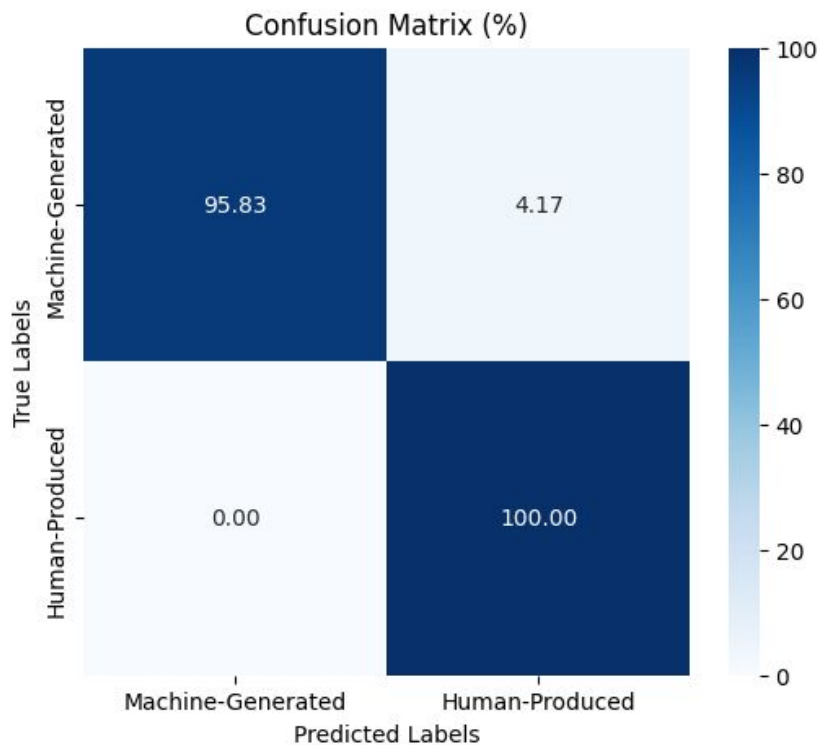


arxiv_davinci_test:

Accuracy: 0.9792

Precision: 1.0000

Recall: 0.9583



Bloomz-560m-academic-detector:
Fine-tuned using arxiv_bloomz

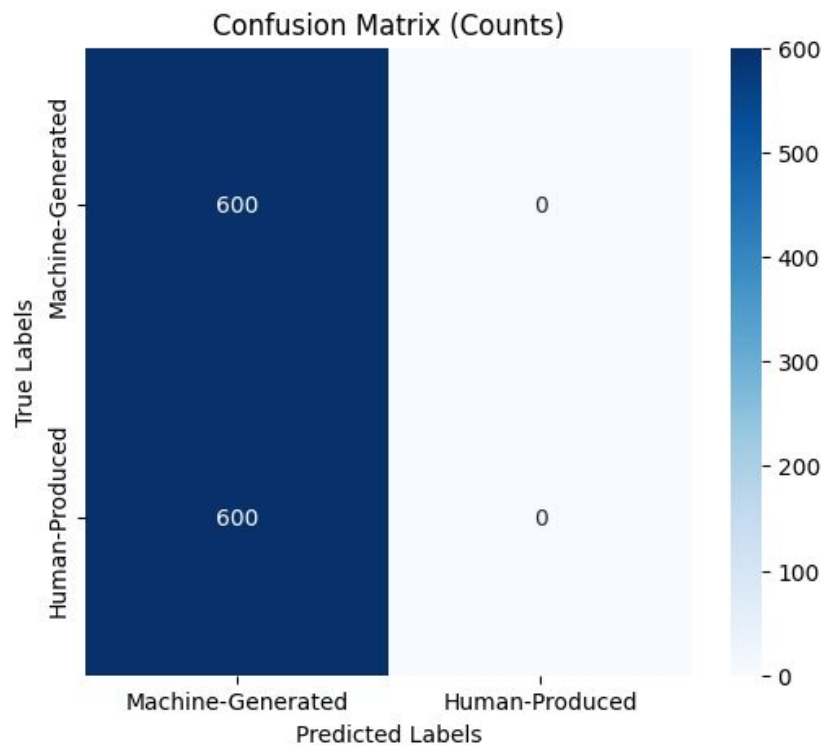
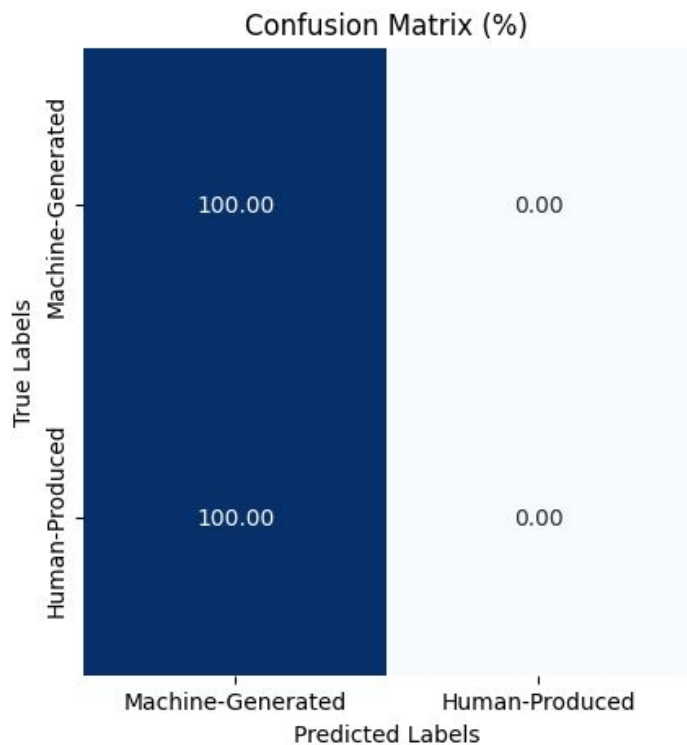
TESTING WITH \N REMOVED

arxiv_bloomz_test:

Accuracy: 0.5000

Precision: 0.5000

Recall: 1.0000

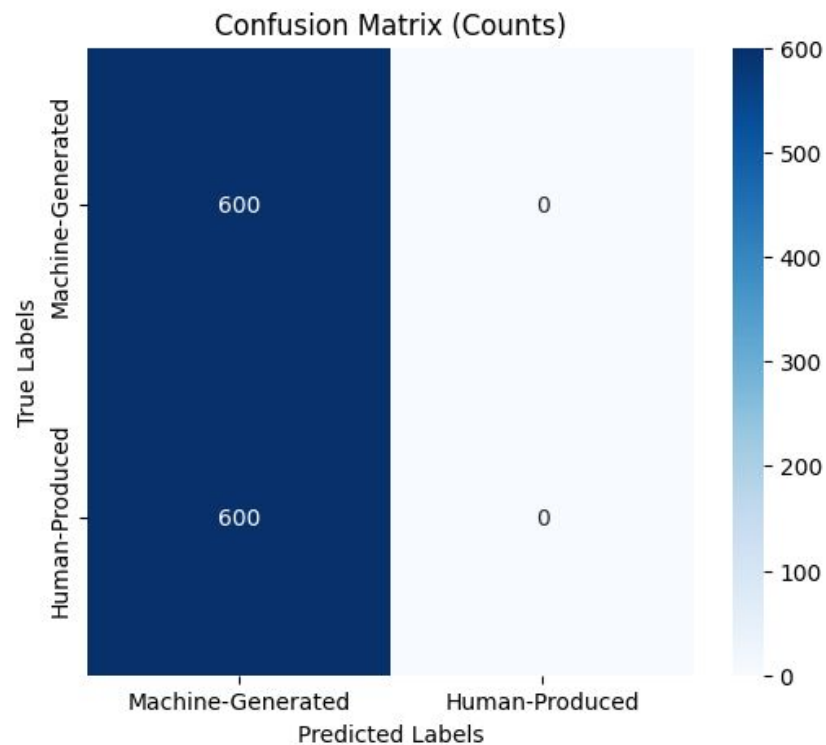
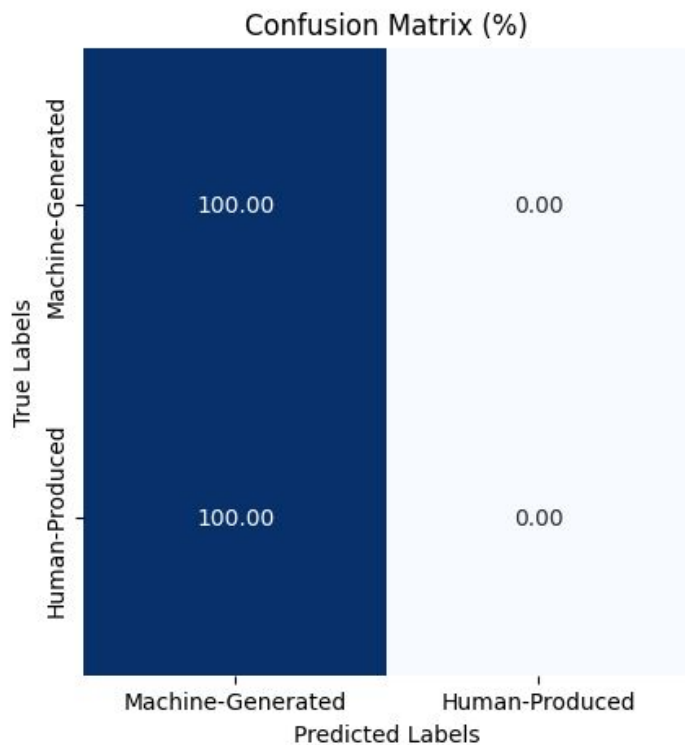


arxiv_chatGPT_test:

Accuracy: 0.5000

Precision: 0.5000

Recall: 1.0000

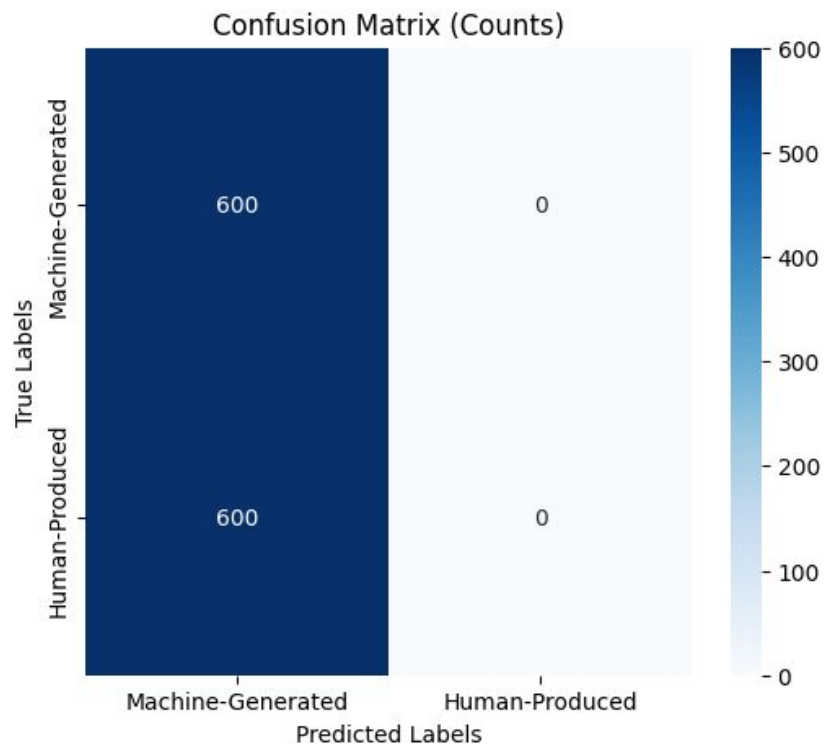
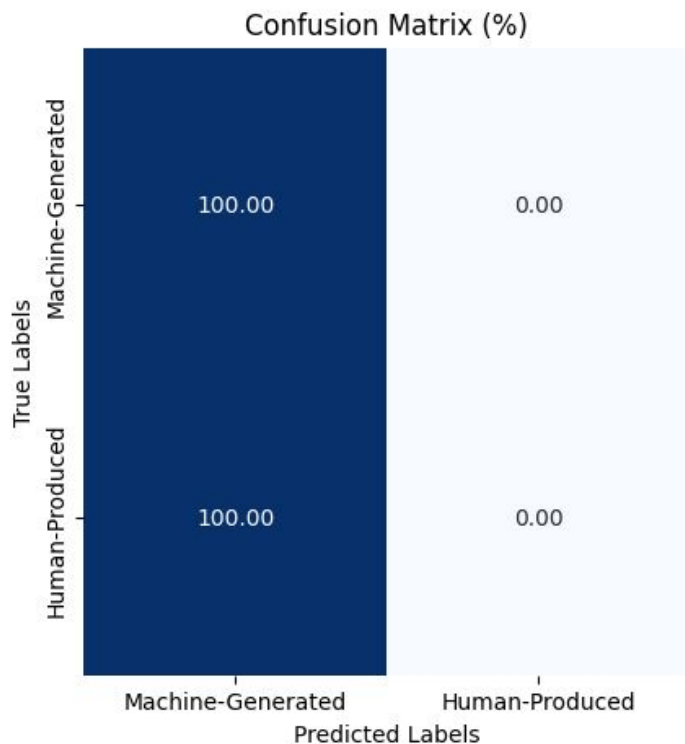


arxiv_cohere_test:

Accuracy: 0.5000

Precision: 0.5000

Recall: 1.0000

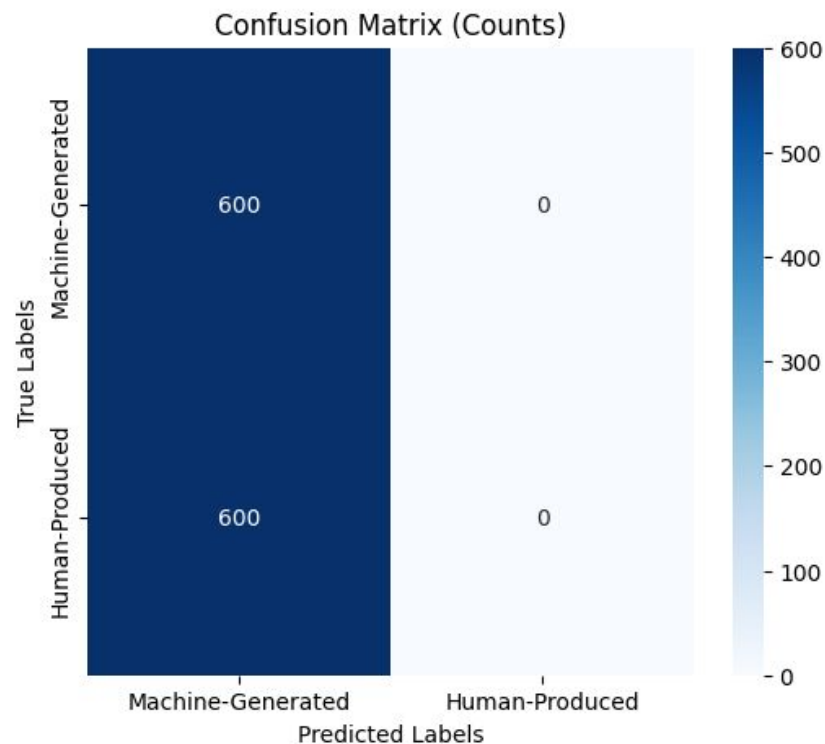
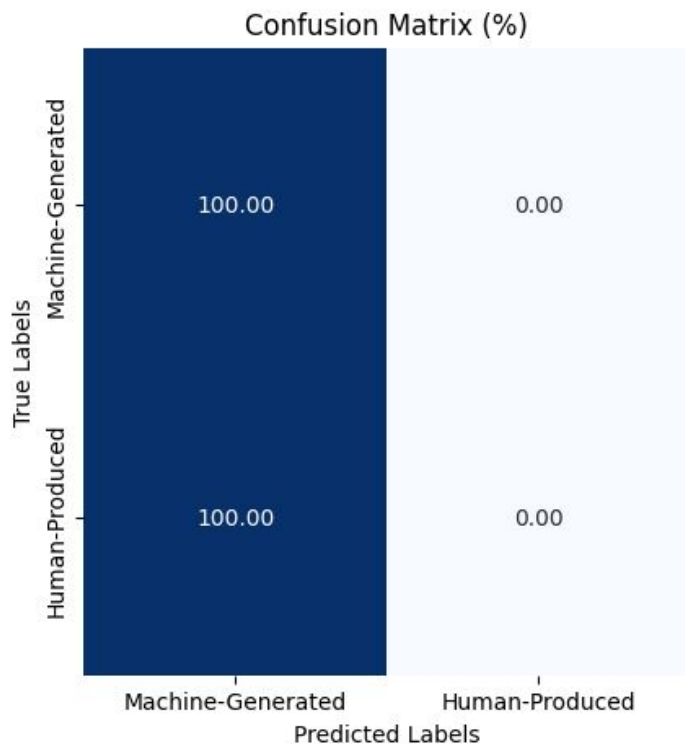


arxiv_davinci_test:

Accuracy: 0.5000

Precision: 0.5000

Recall: 1.0000

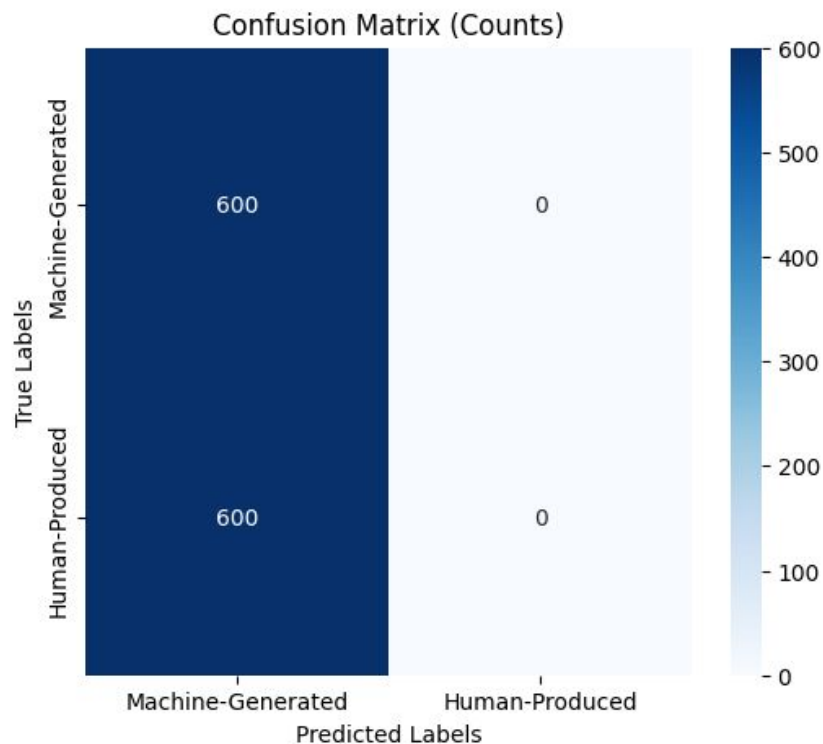
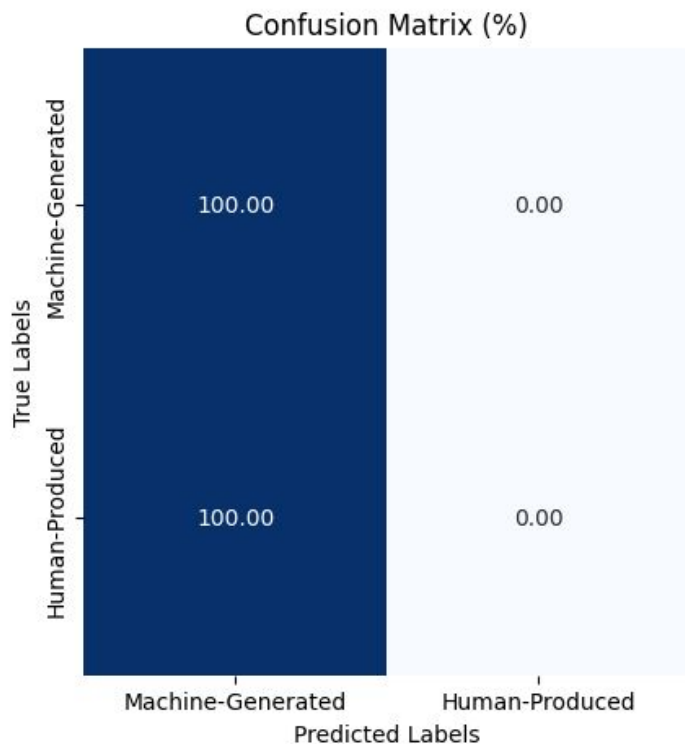


arxiv_flant5_test:

Accuracy: 0.5000

Precision: 0.5000

Recall: 1.0000



Bloomz-560m-academic-detector:
Fine-tuned using arxiv_bloomz

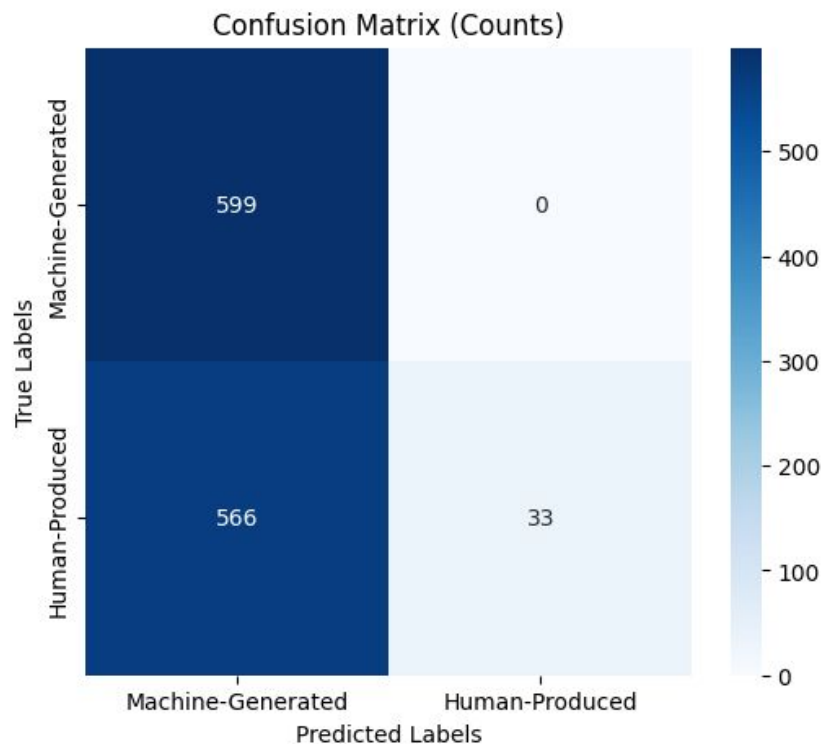
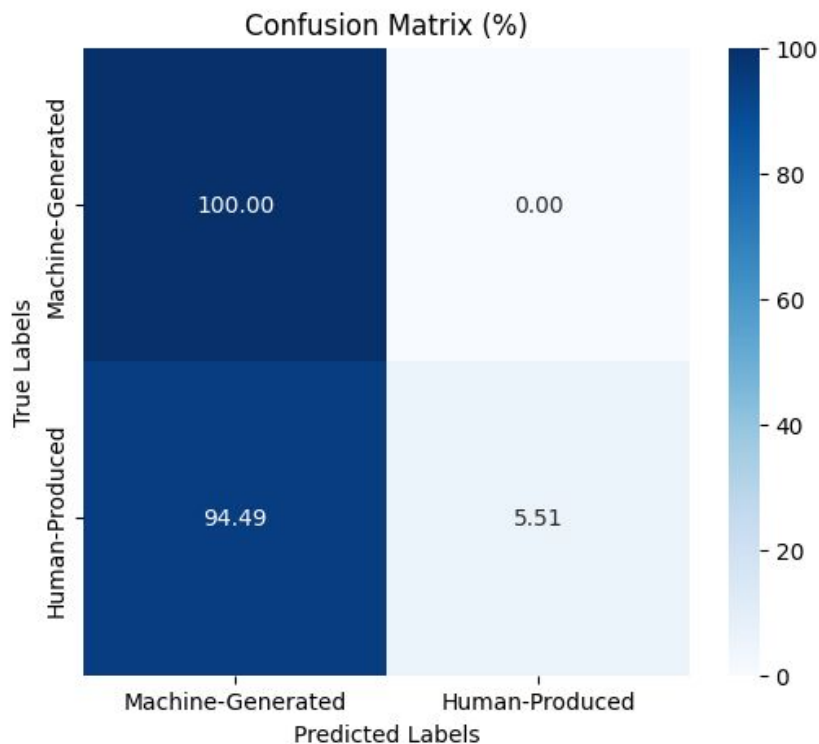
TESTING WITH M4 WIKI

wikipedia_chatgpt_test:

Accuracy: 0.5275

Precision: 0.5142

Recall: 1.0000



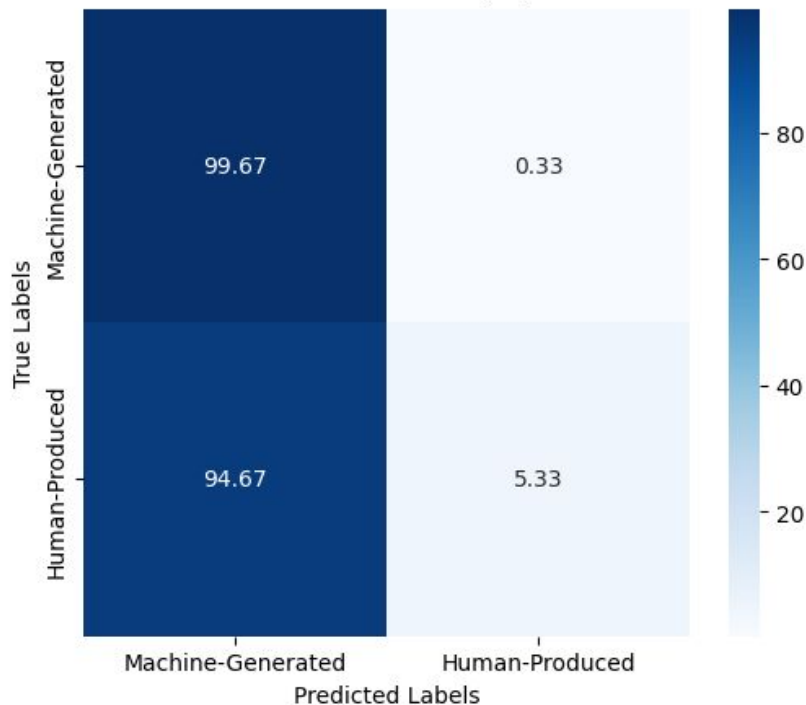
wikipedia_bloomz_test:

Accuracy: 0.5250

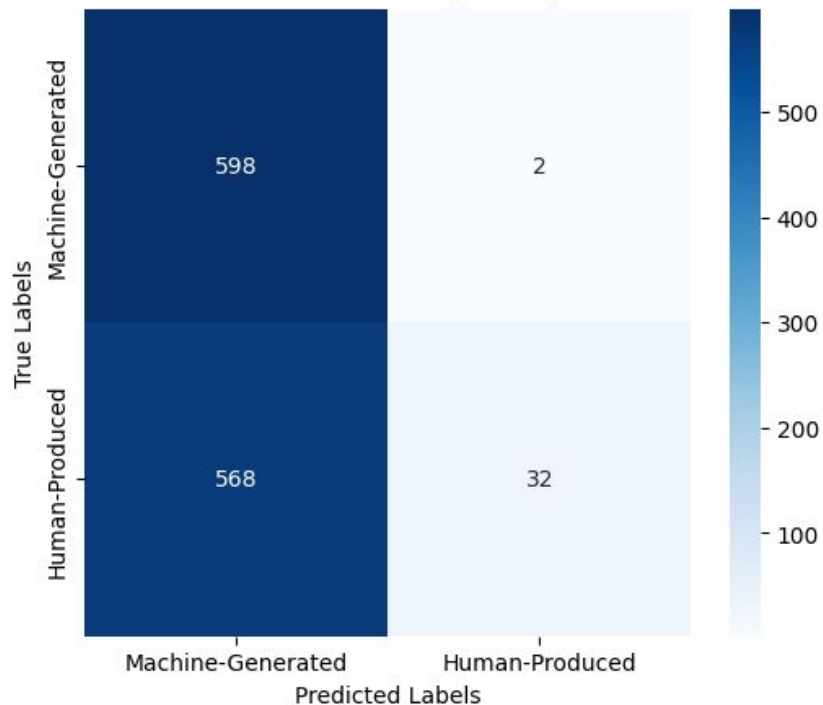
Precision: 0.5129

Recall: 0.9967

Confusion Matrix (%)



Confusion Matrix (Counts)

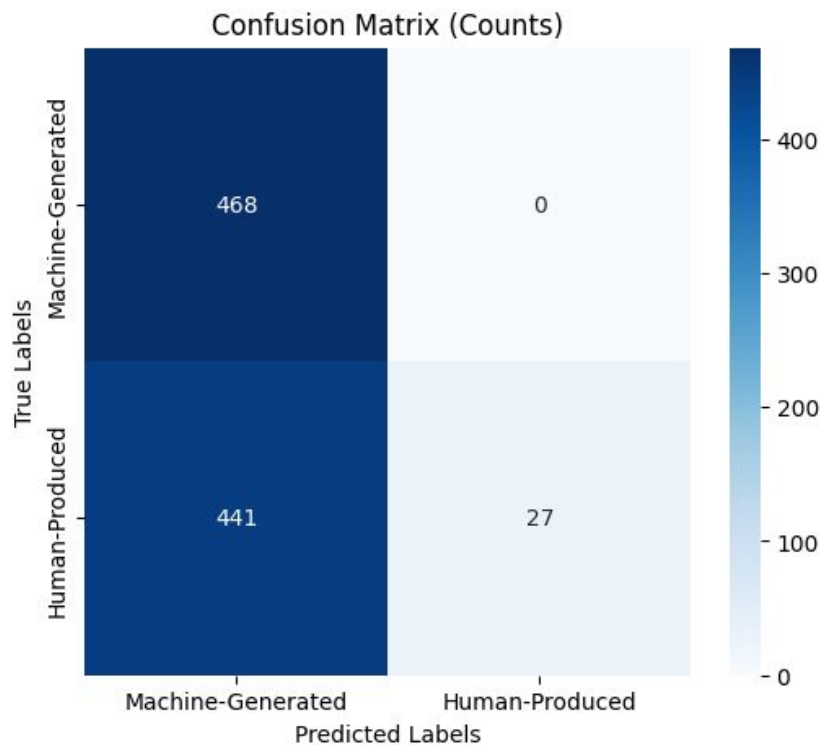
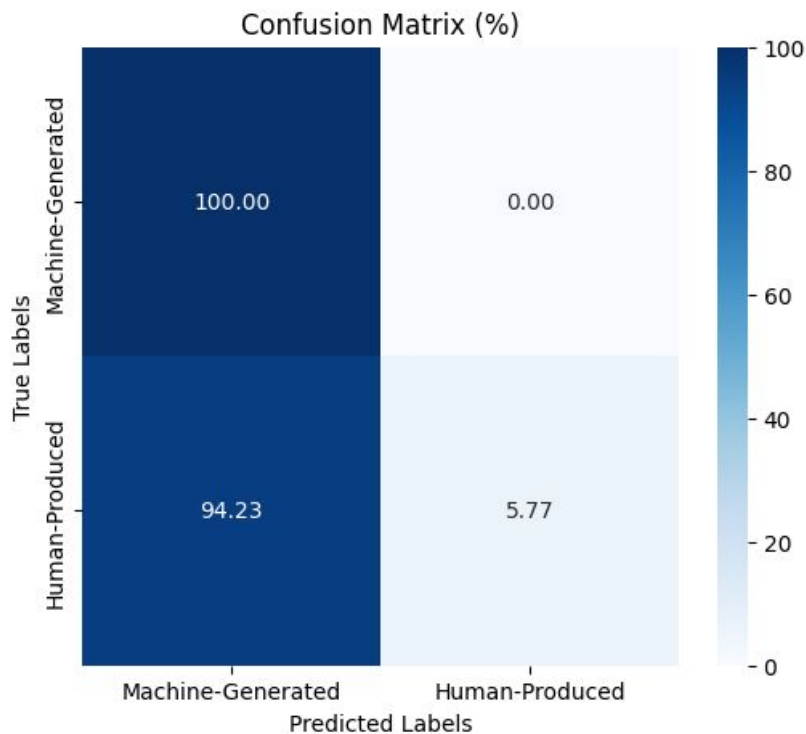


wikipedia_cohere_test:

Accuracy: 0.5288

Precision: 0.5149

Recall: 1.0000

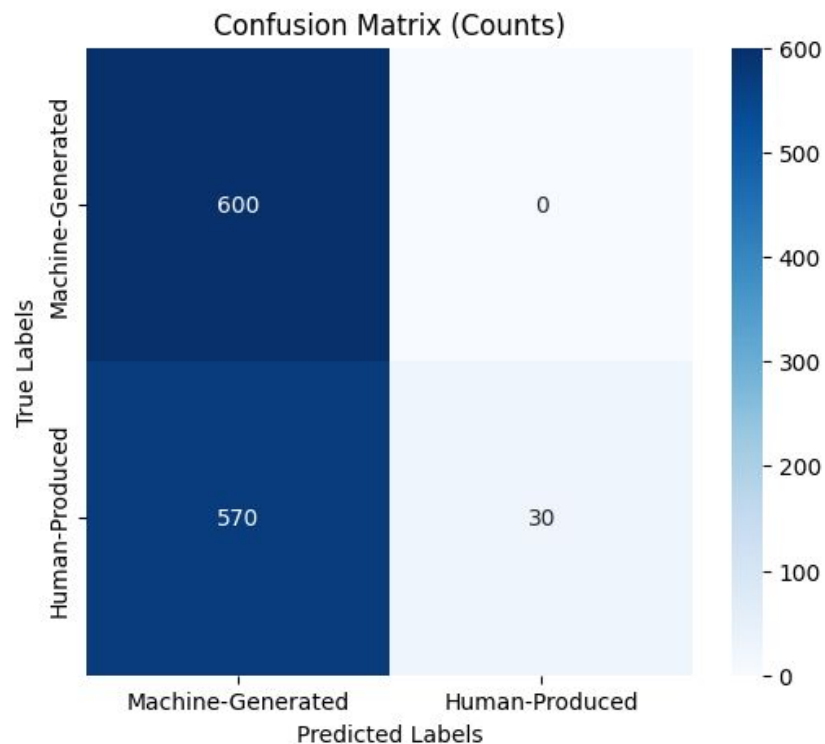
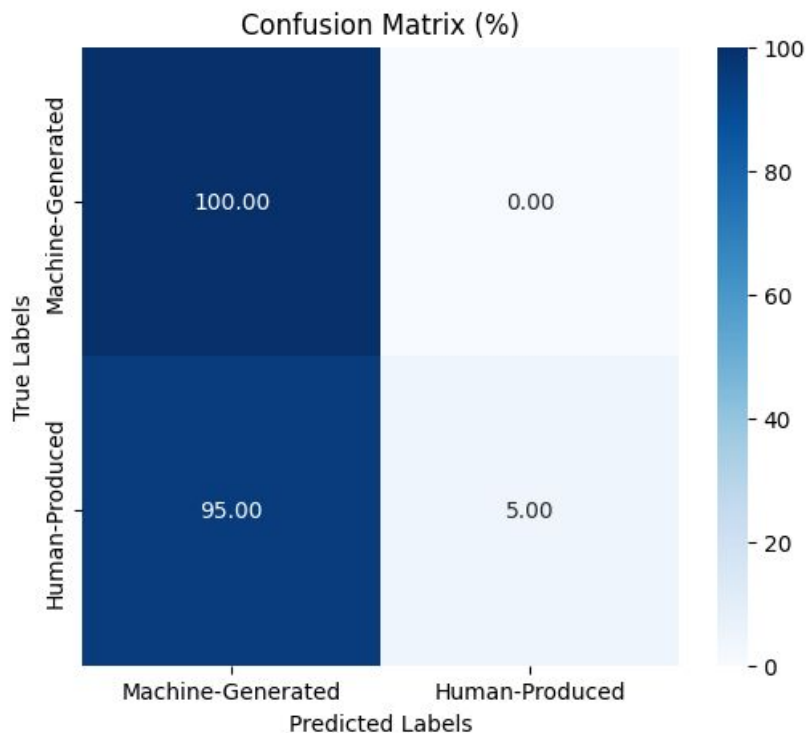


wikipedia_davinci_test:

Accuracy: 0.5250

Precision: 0.5128

Recall: 1.0000

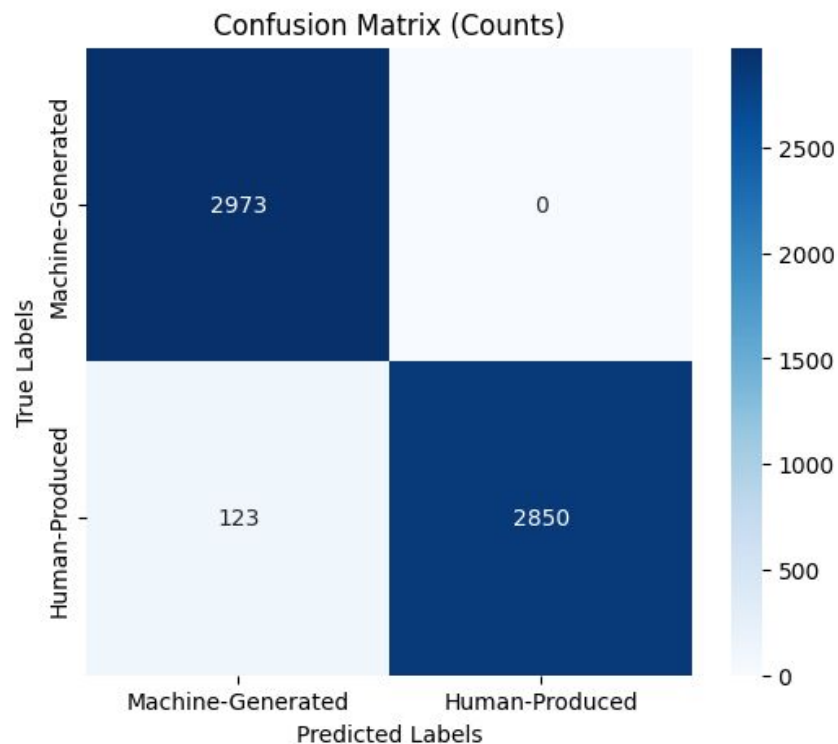
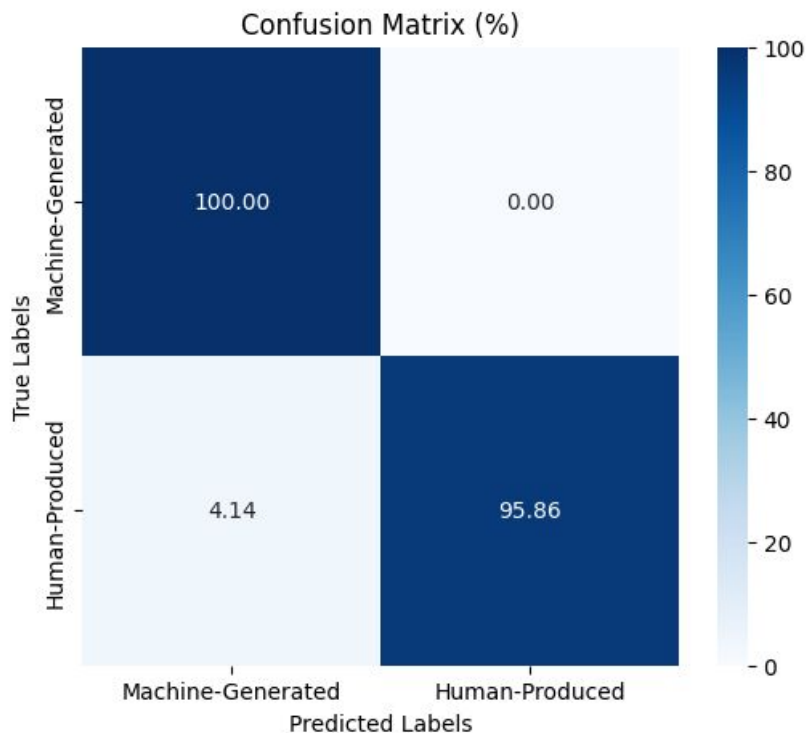


Testing with ML dataset:

Accuracy: 0.9793

Precision: 0.9603

Recall: 1.0000



FINETUNING & TESTING WITH \N REMOVED DATASETS

Bloomz-560m-academic-detector:
Fine-tuned **arxiv_bloomz_\n_removed**

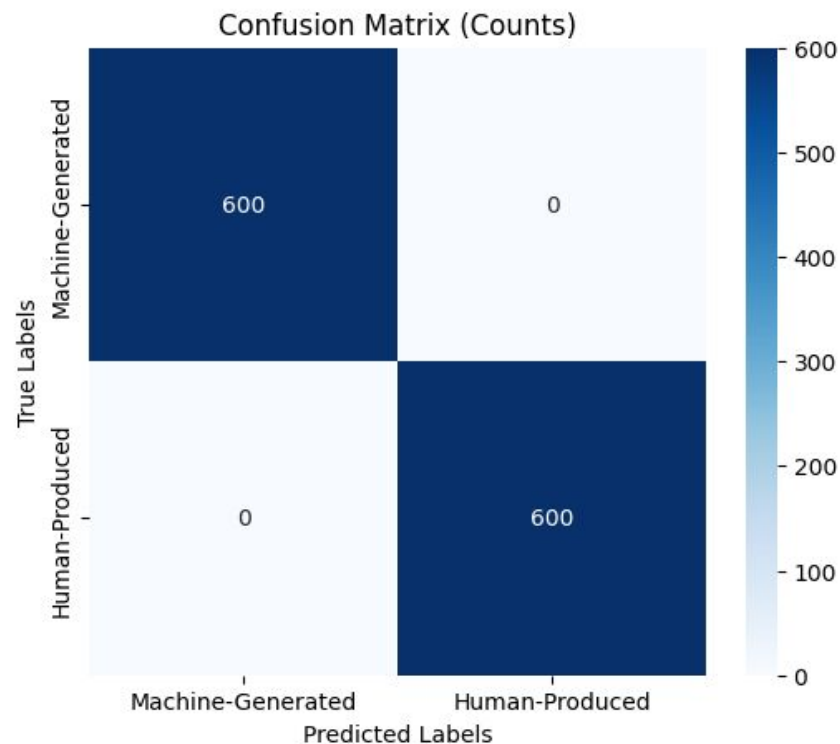
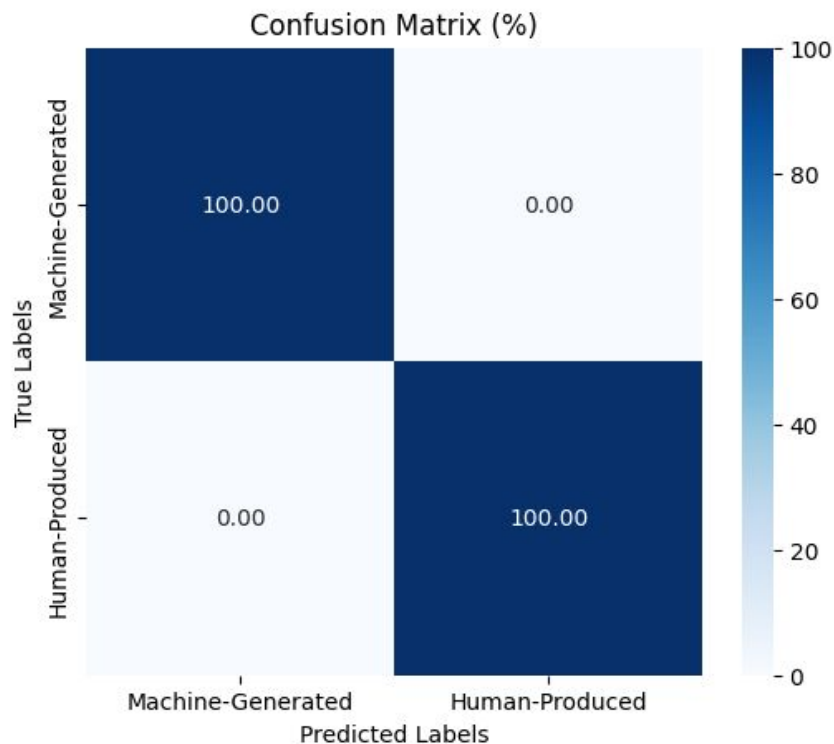
Test using \n_removed_(chatGPT,cohere,flant5,davinci,chatGPT_para,bloomz_para)_test_set

Testing with arxiv_bloomz_\n_removed held-out test_dataset:

Accuracy: 1.0000

Precision: 1.0000

Recall: 1.0000

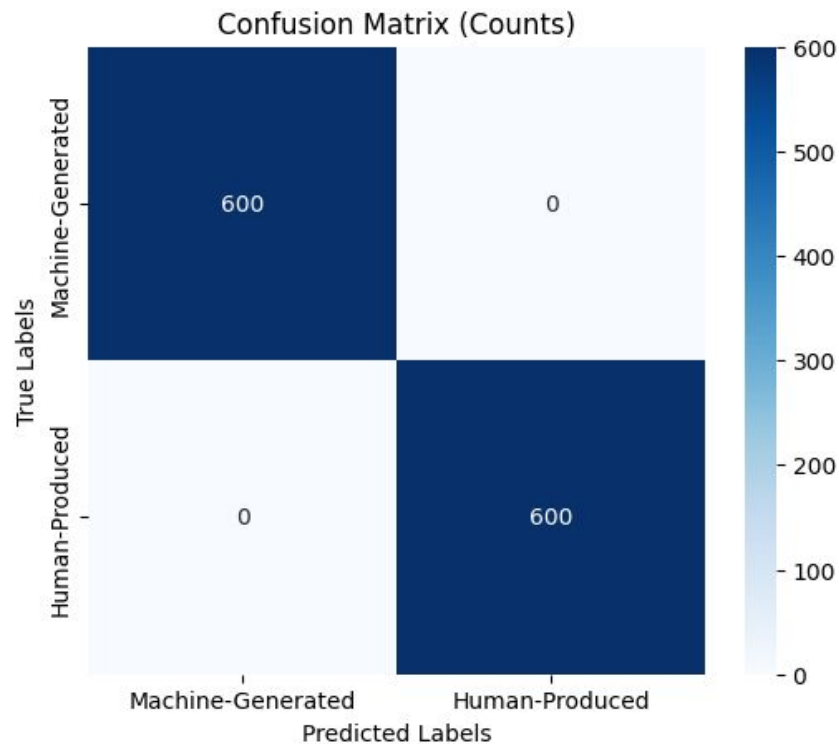
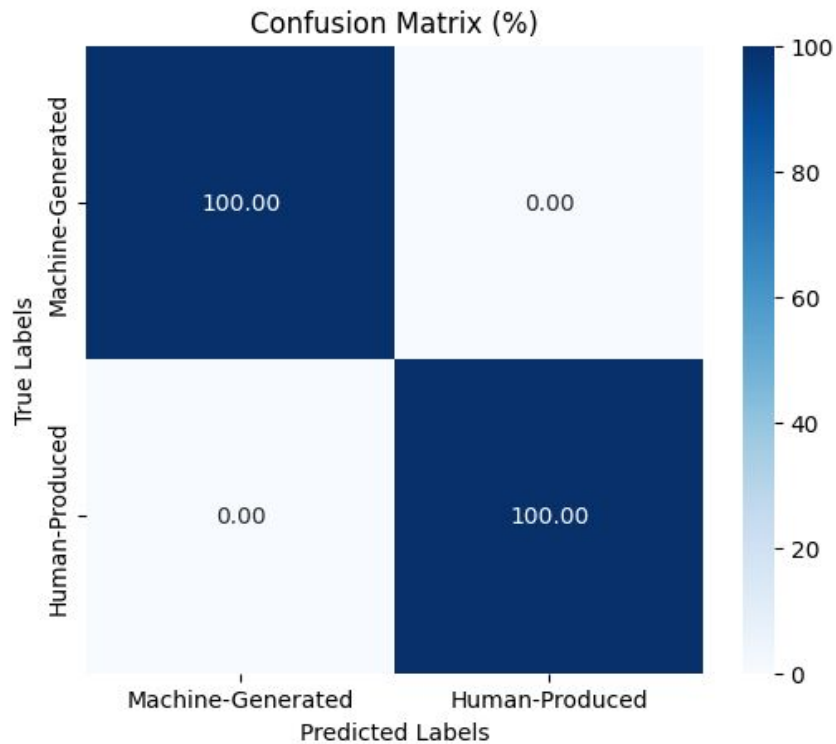


Testing with arxiv_n_removed test_data from ChatGPT:

Accuracy: 1.0000

Precision: 1.0000

Recall: 1.0000

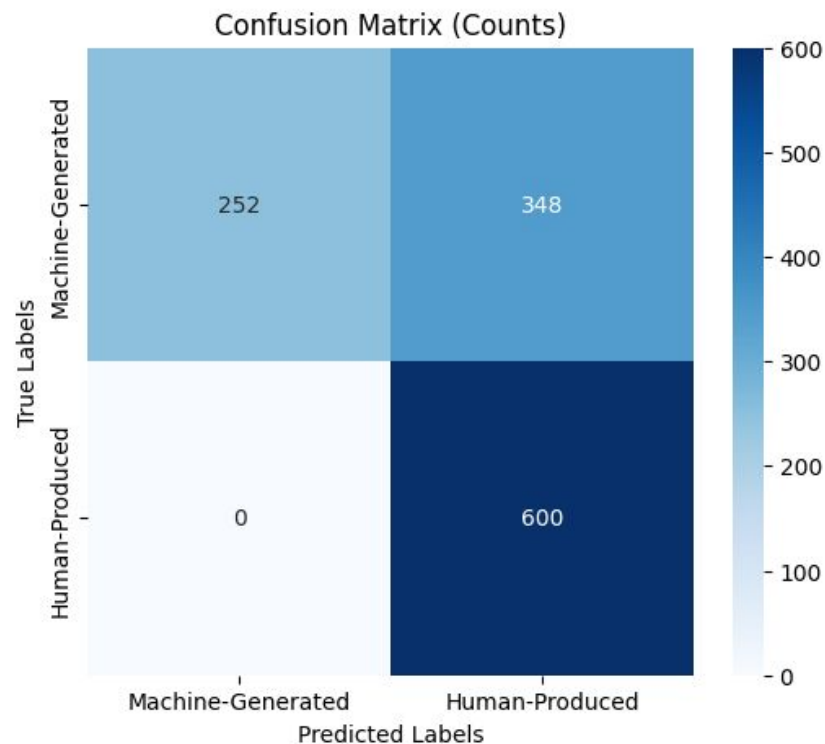
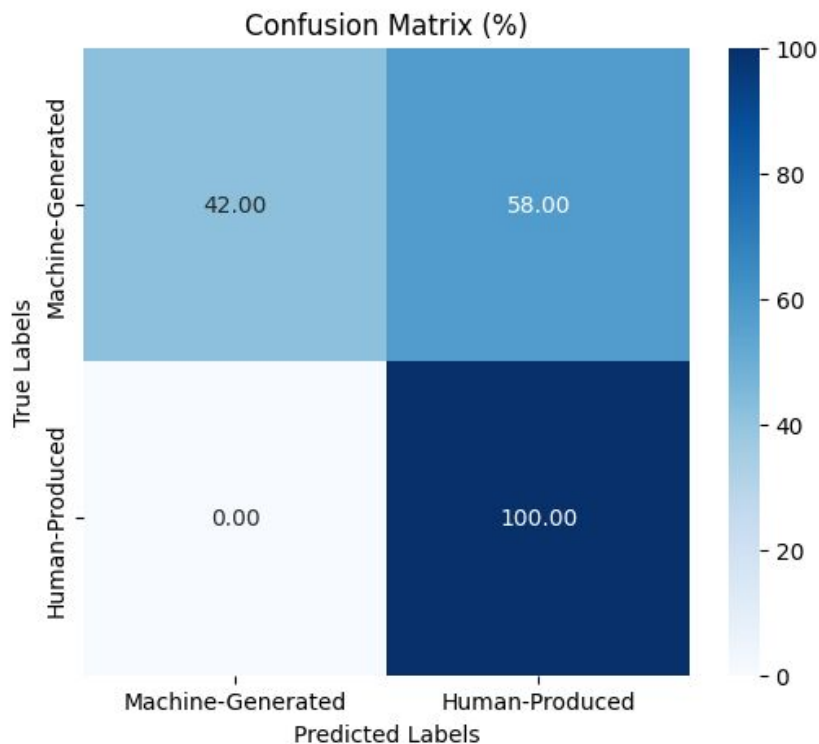


Testing with arxiv_n_removed test_data from Cohere:

Accuracy: 0.7100

Precision: 1.0000

Recall: 0.4200

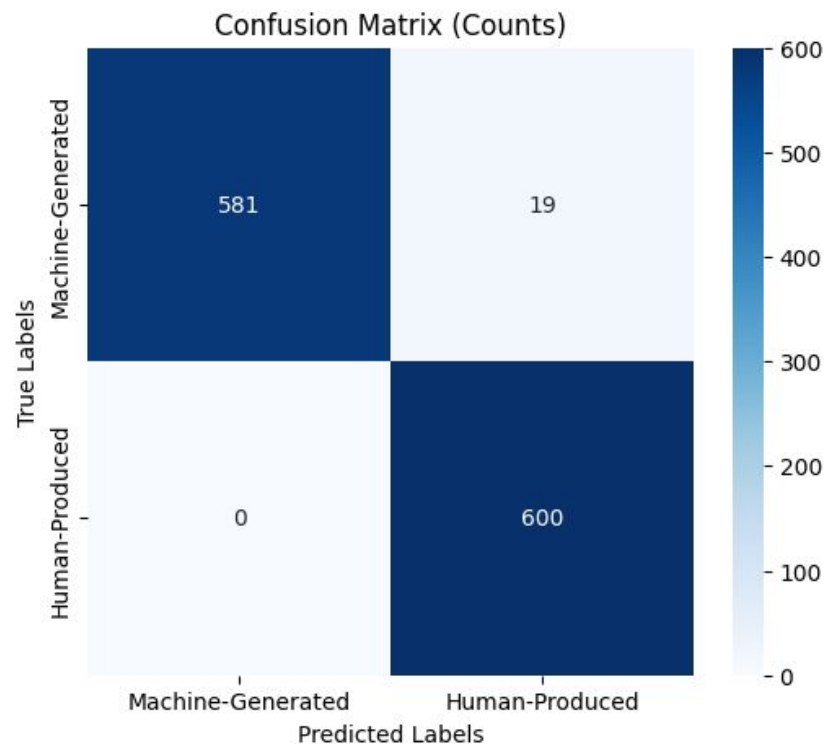
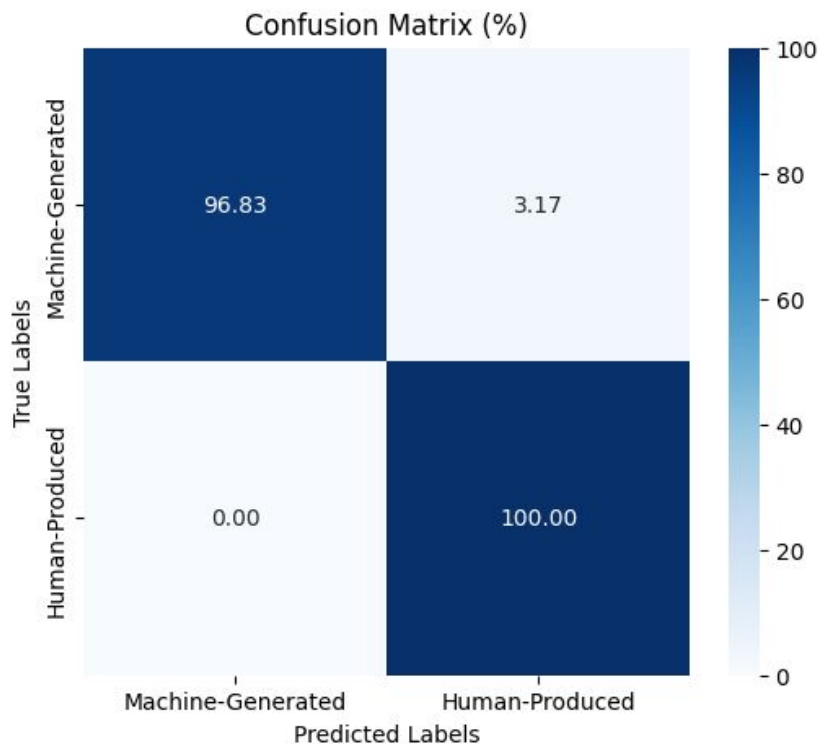


Testing with arxiv_n_removed test_data from Davinci:

Accuracy: 0.9842

Precision: 1.0000

Recall: 0.9683

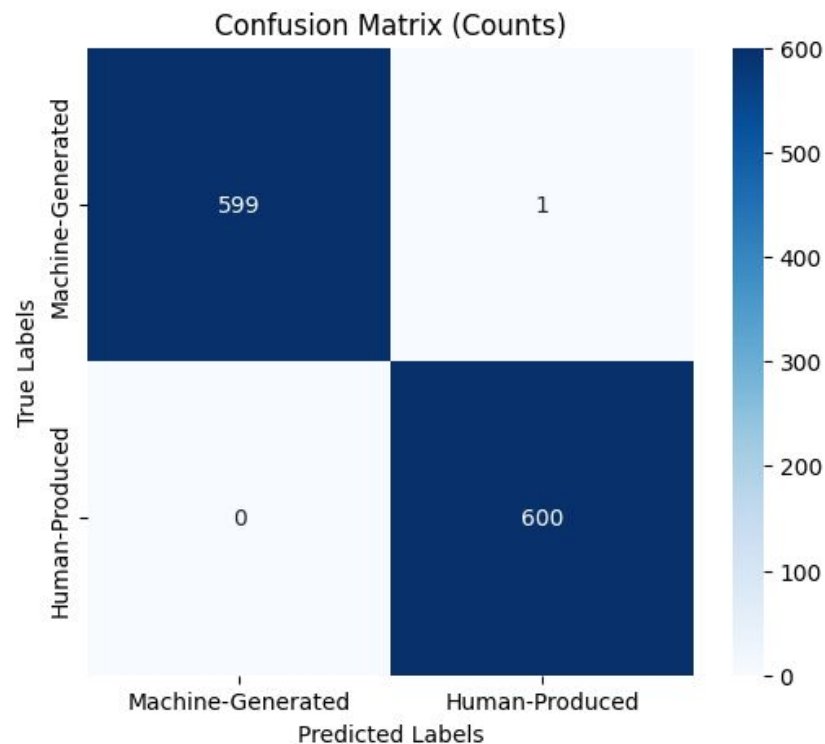
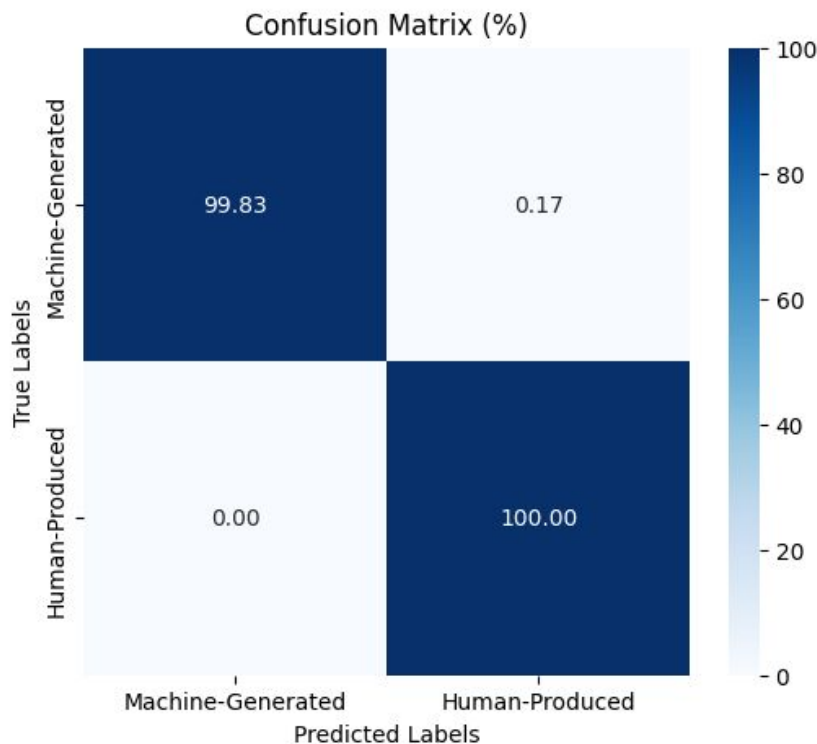


Testing with arxiv_n_removed test_data from Flant5:

Accuracy: 0.9992

Precision: 1.0000

Recall: 0.9983

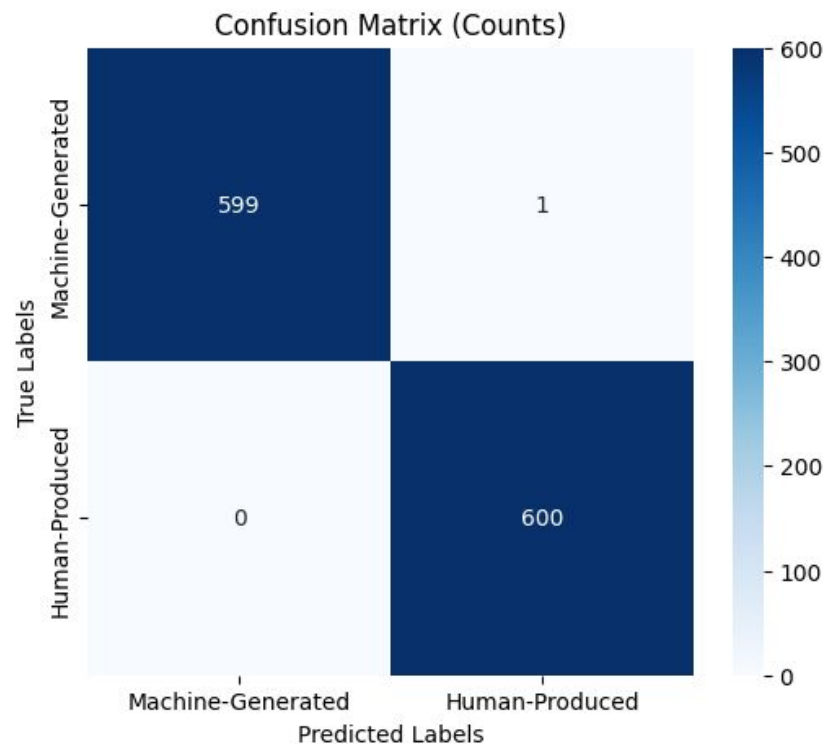
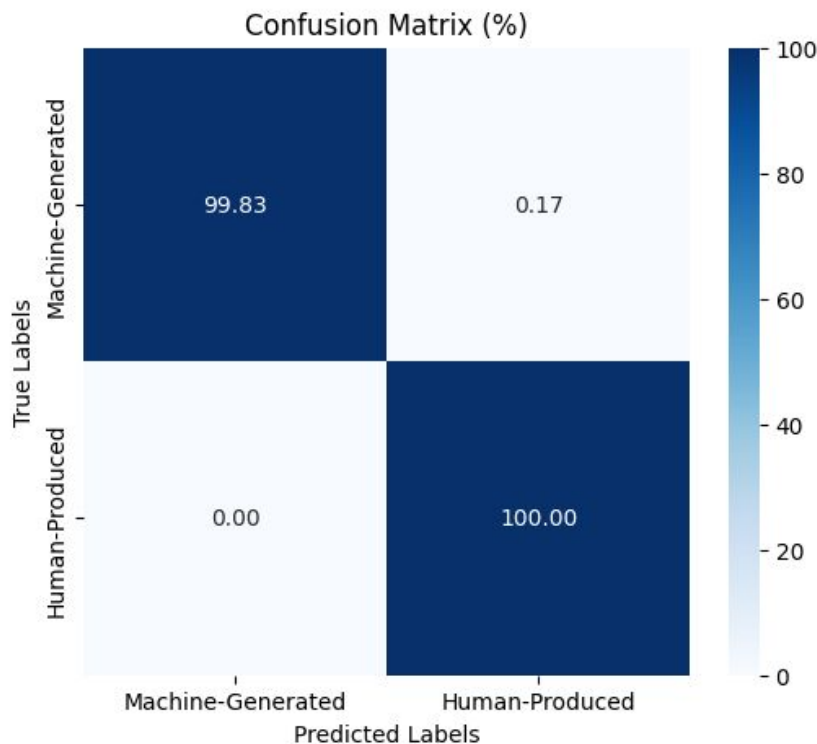


Testing with arxiv_n_removed test_data from Flant5:

Accuracy: 0.9992

Precision: 1.0000

Recall: 0.9983

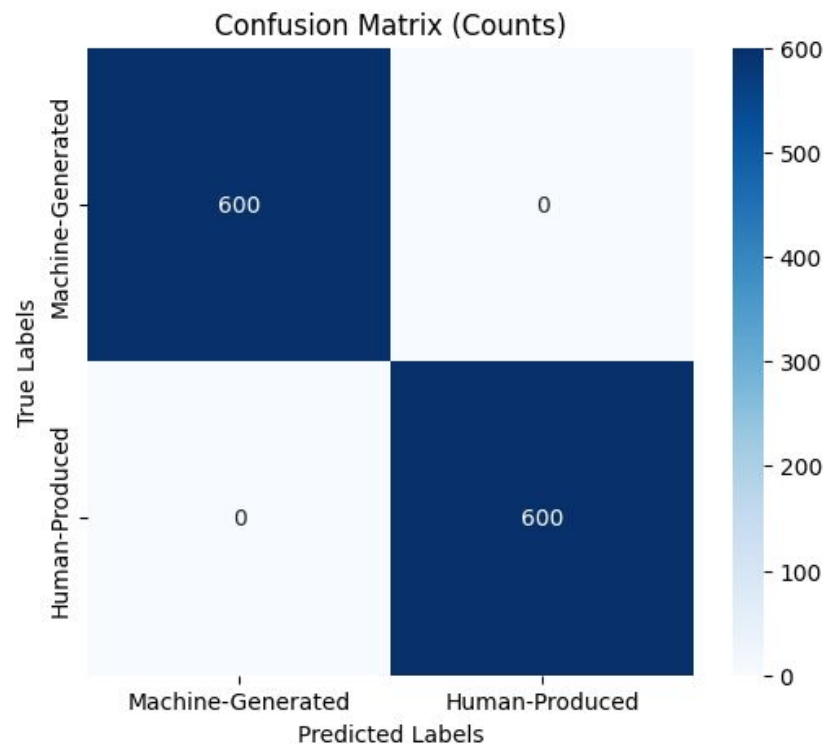
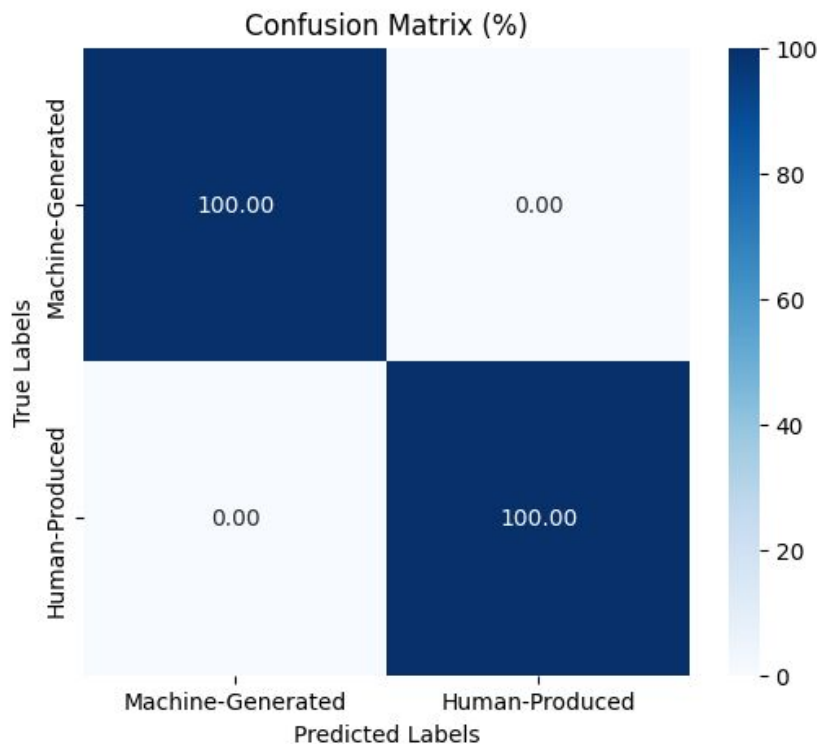


Testing with arxiv_n_removed test_data from bloomz_paraphrased:

Accuracy: 1.0000

Precision: 1.0000

Recall: 1.0000

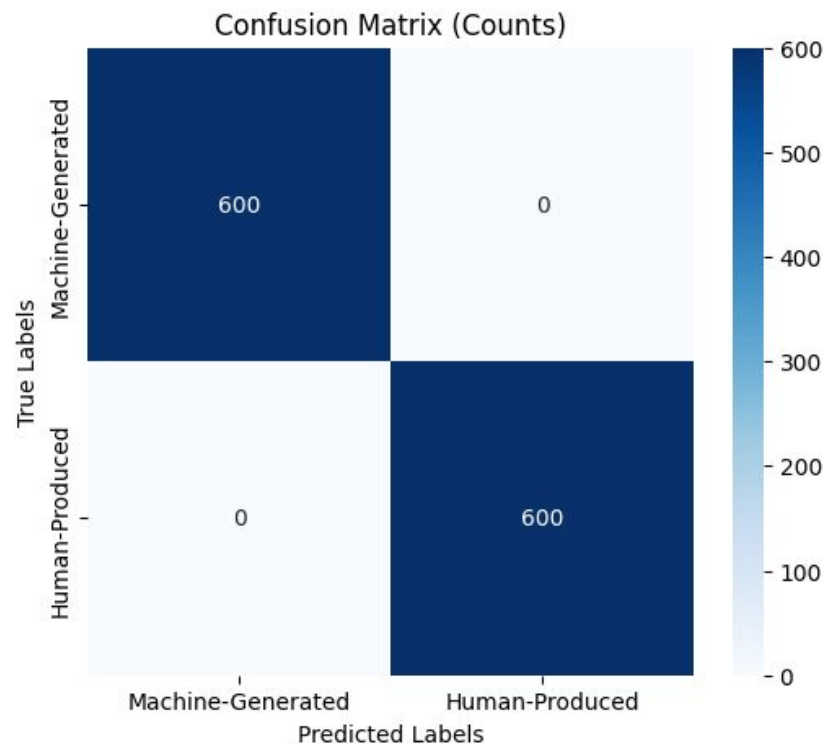
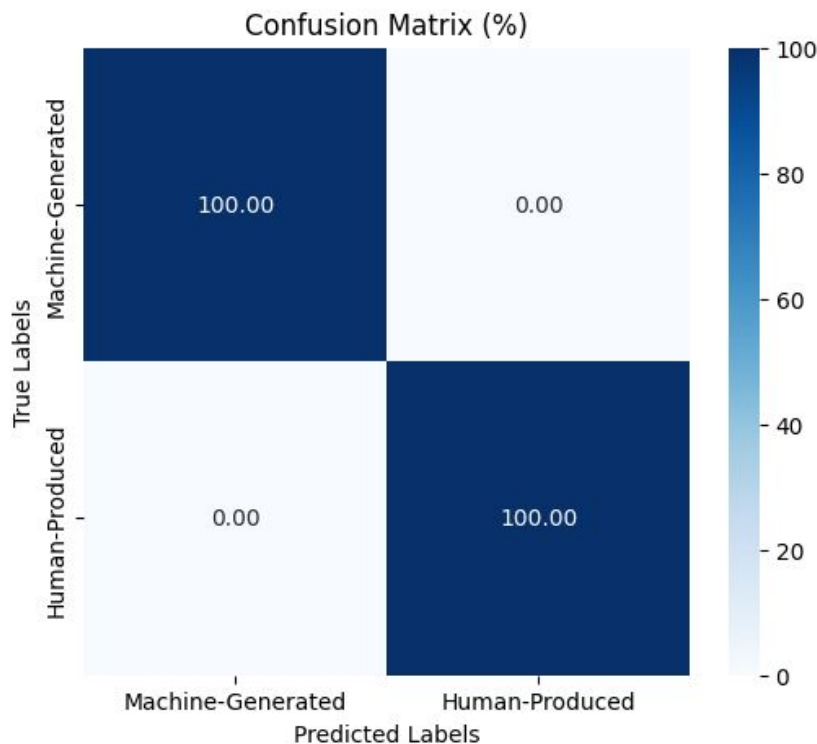


Testing with arxiv_n_removed test_data from chatGPT_paraphrased:

Accuracy: 1.0000

Precision: 1.0000

Recall: 1.0000



Bloomz-560m-academic-detector:
Fine-tuned **arxiv_bloomz_\n_removed +
wikipedia_bloomz_\n_removed**

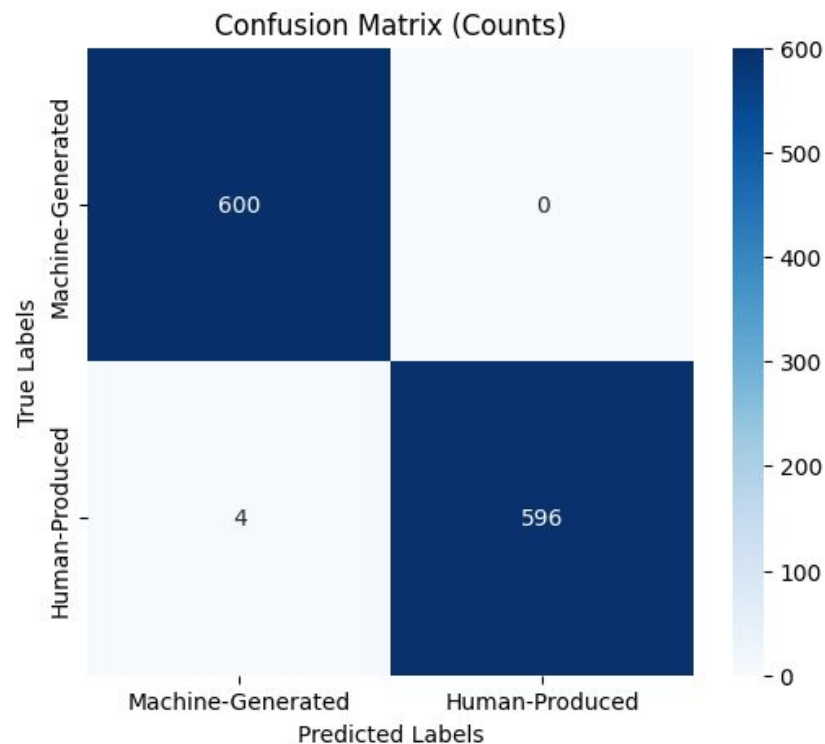
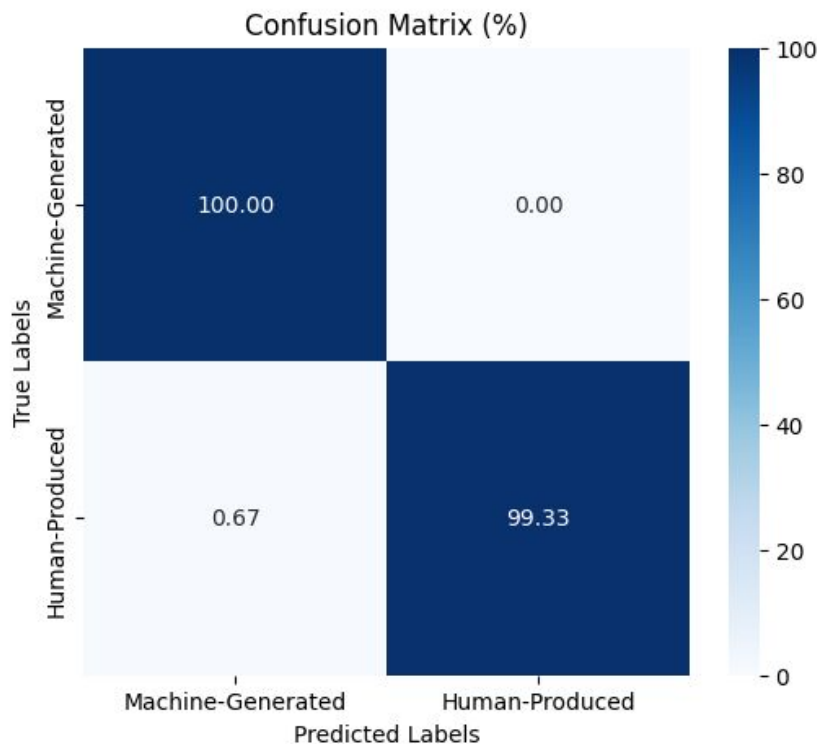
Test using \n_removed_wiki_(chatGPT,cohere,davinci)_test_set

Testing with wikipedia_bloomz_\n_removed held-out test_dataset:

Accuracy: 0.9967

Precision: 0.9934

Recall: 1.0000

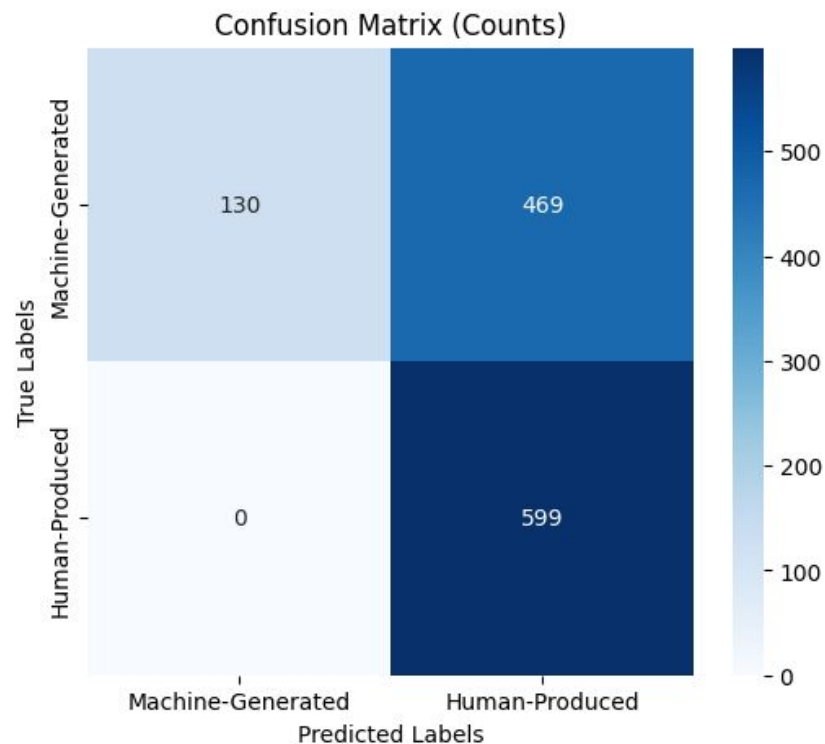
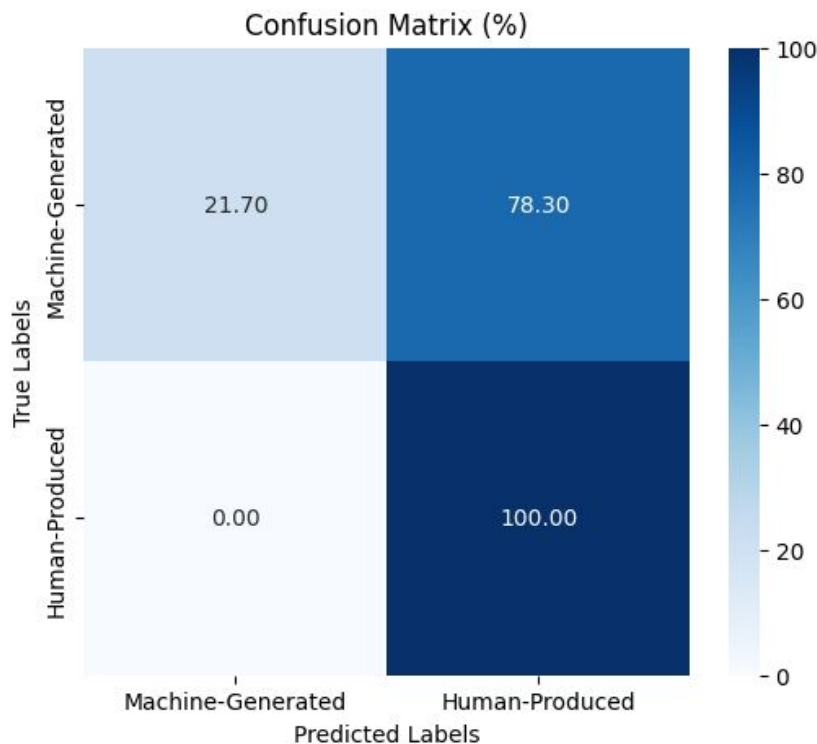


Testing with wikipedia_chatgpt_test\n_removed test_dataset:

Accuracy: 0.6085

Precision: 1.0000

Recall: 0.2170

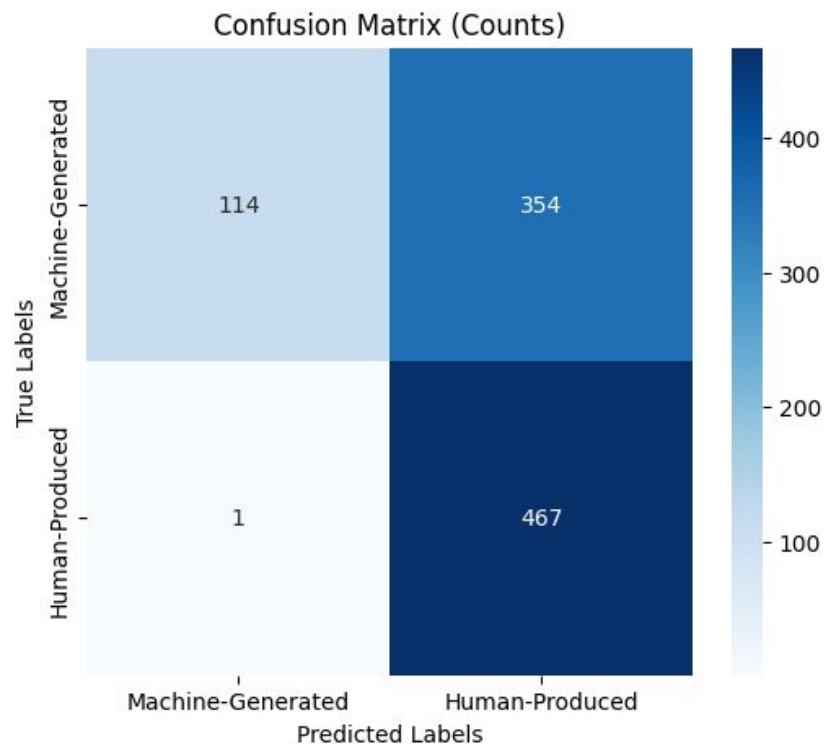
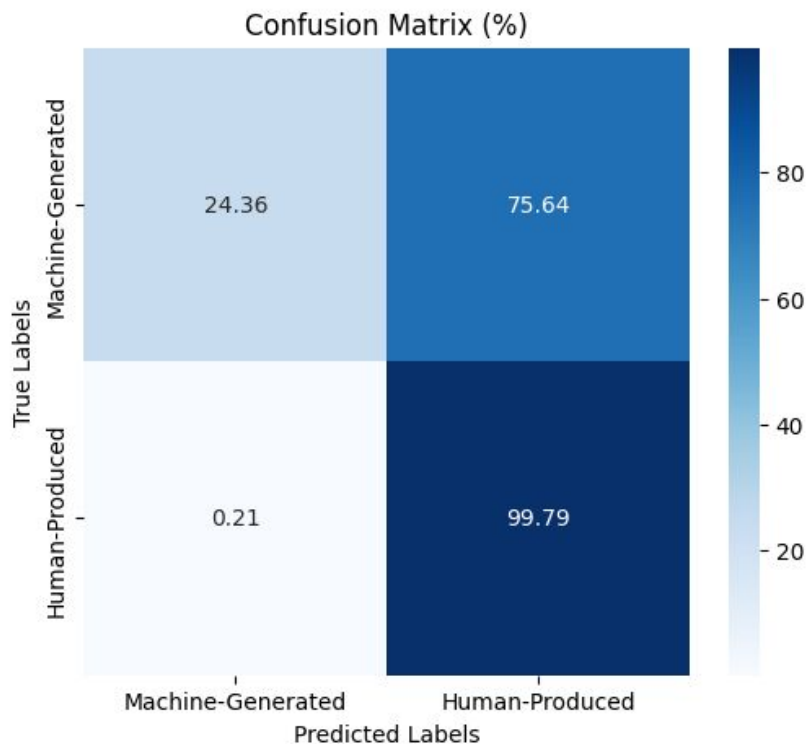


Testing with wikipedia_cohere_test_n_removed:

Accuracy: 0.6207

Precision: 0.9913

Recall: 0.2436



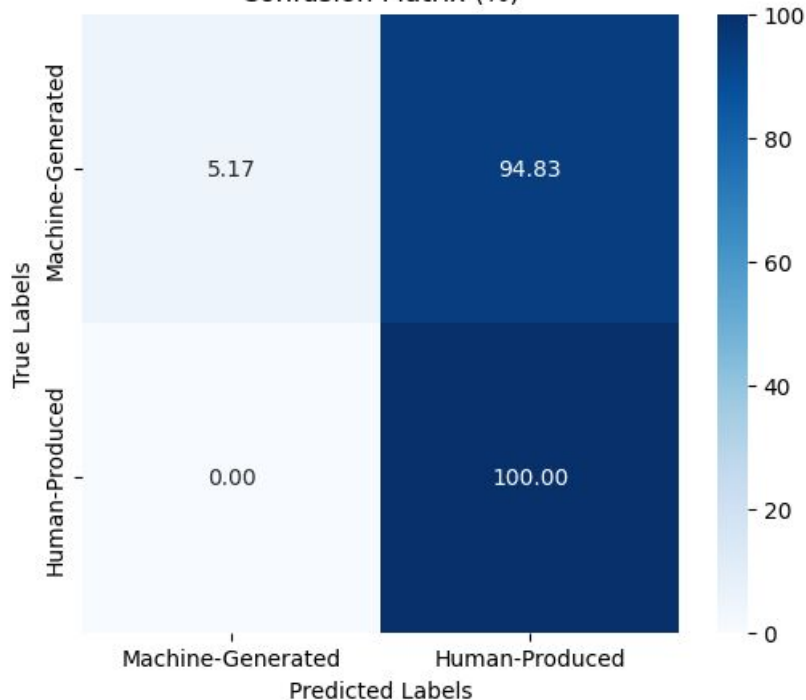
Testing with wikipedia_davinci_test_n_removed:

Accuracy: 0.5258

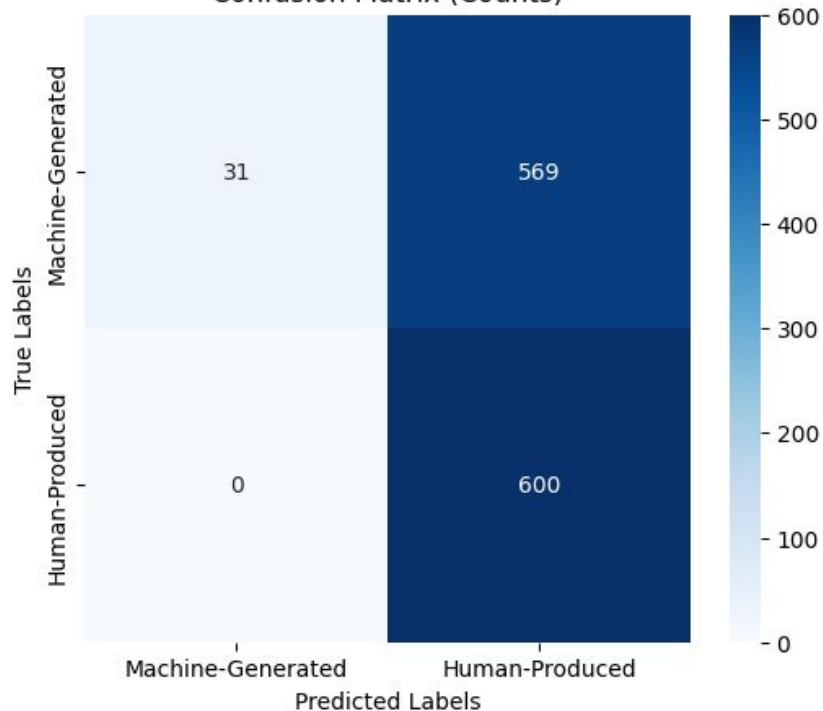
Precision: 1.0000

Recall: 0.0517

Confusion Matrix (%)



Confusion Matrix (Counts)



Bloomz-560m-academic-detector:
Fine-tuned **arxiv_bloomz_\n_removed +
wikipedia_bloomz_\n_removed + ML_dataset_\n_removed**

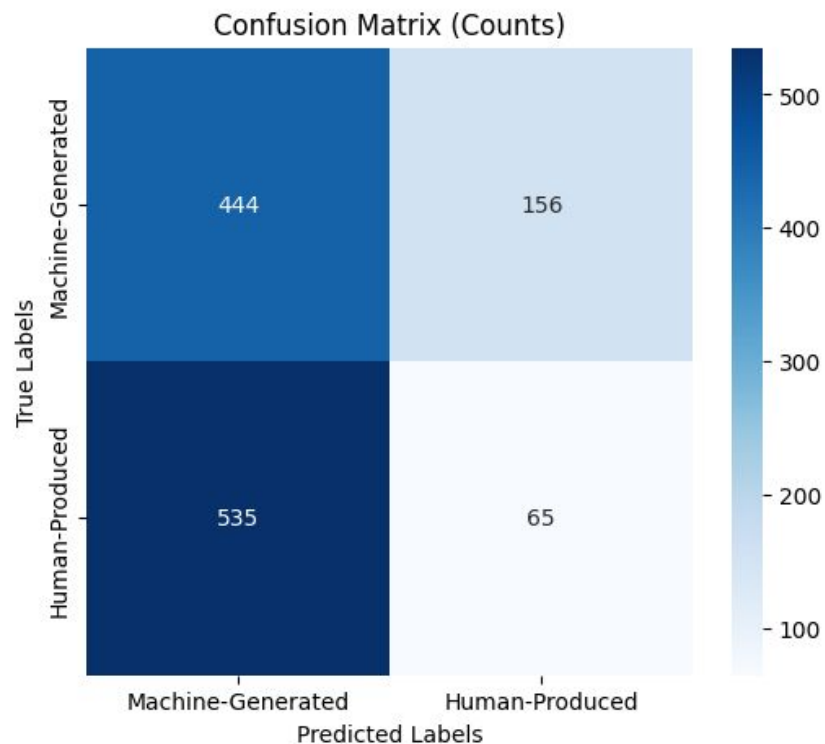
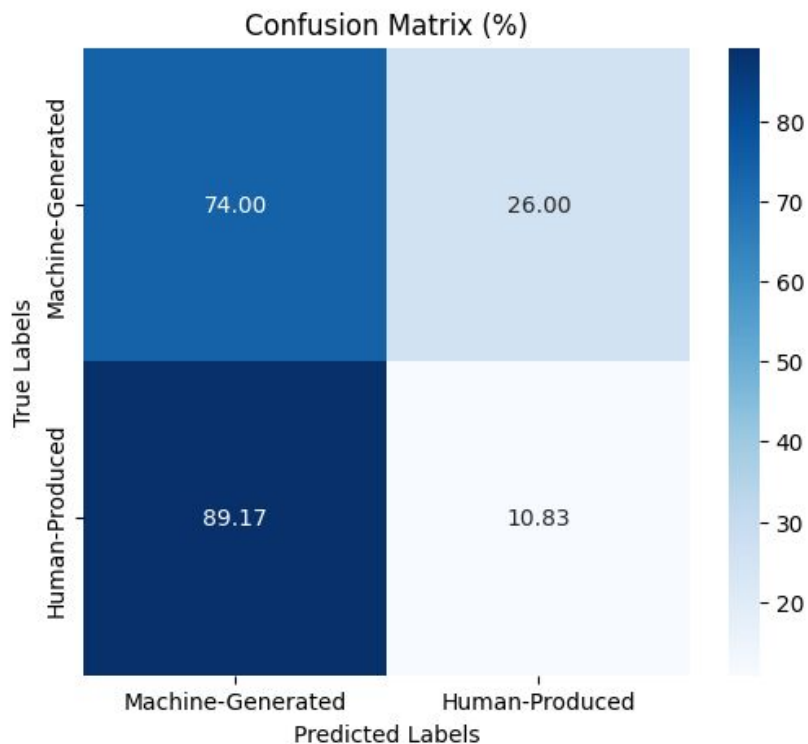
Test using ML_data_test_set_\n_removed

Testing with ML_dataset\n_removed held-out test_dataset:

Accuracy: 0.4242

Precision: 0.4535

Recall: 0.7400



**Bloomz-560m-academic-detector: finetune using
ML_dataset\n_removed**

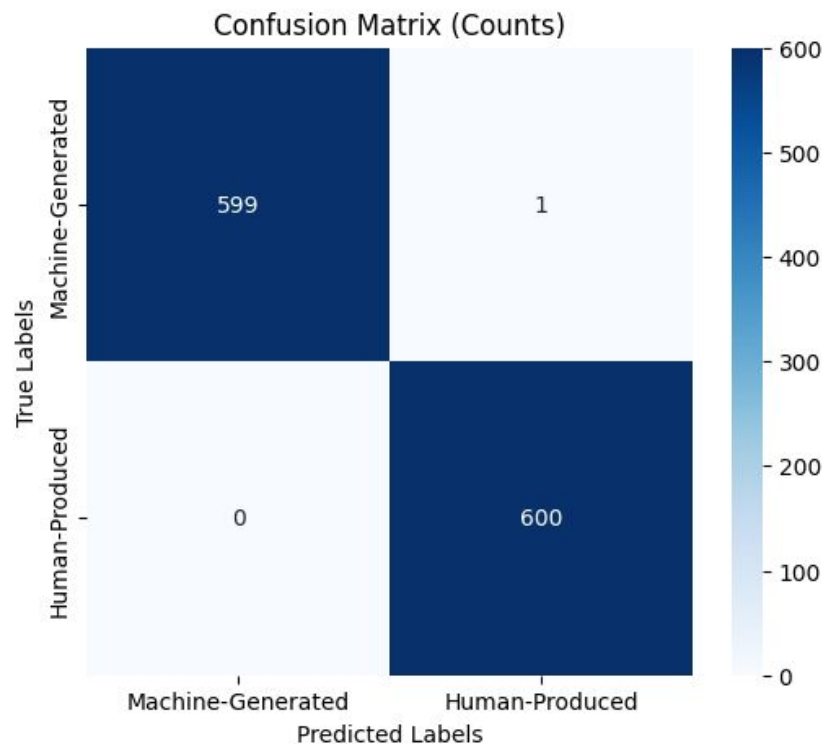
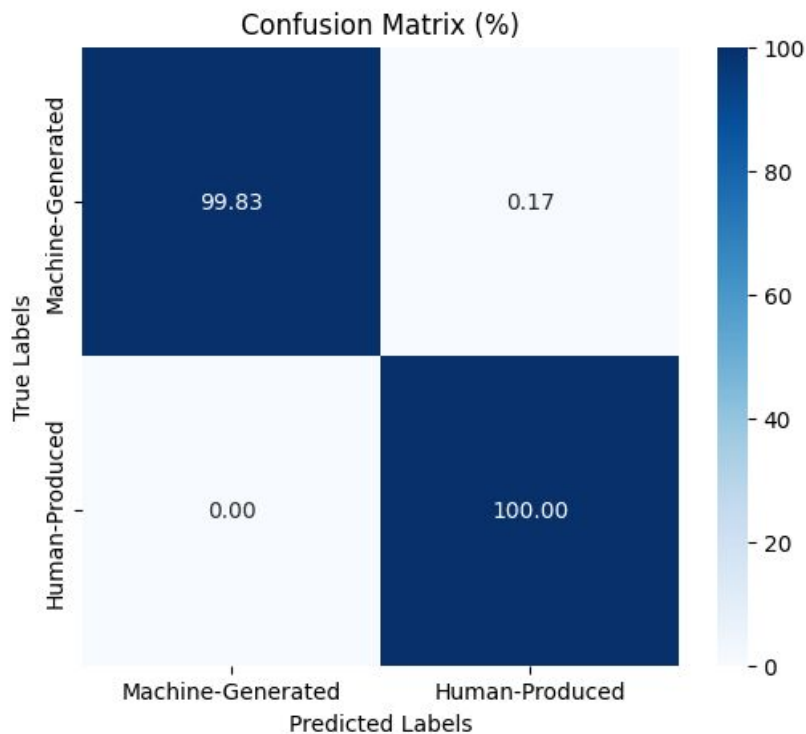
Test using ML_data_test_set\n_removed

Testing with ML_dataset\n_removed held-out test_dataset:

Accuracy: 0.9992

Precision: 1.0000

Recall: 0.9983



**Bloomz-560m-academic-detector: finetune using
arxiv_bloomz_\n_removed**

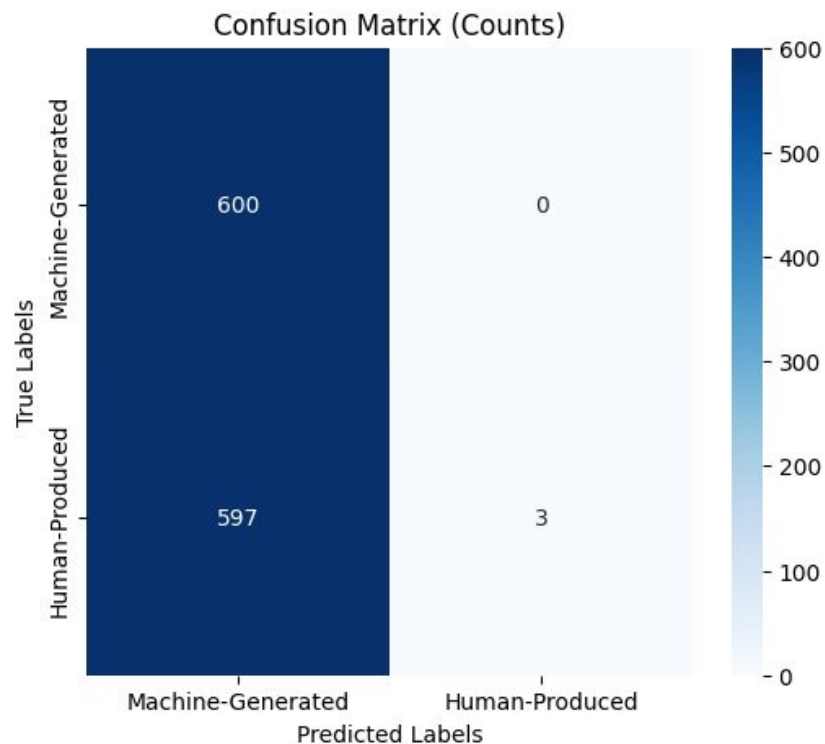
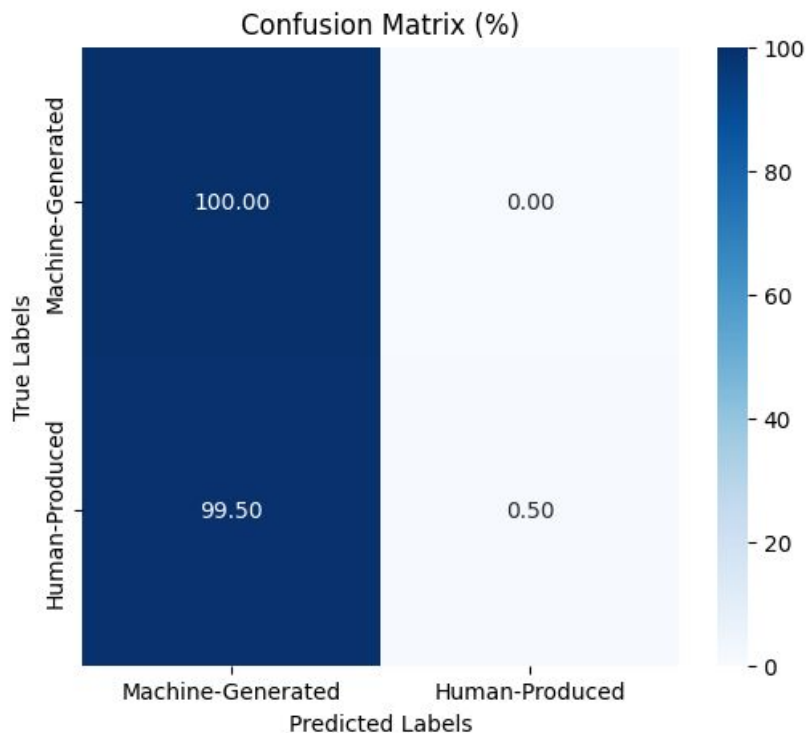
Test using wiki_(chatGPT,cohere,davinci,bloomz)_test_set_with_\n_without_unicode

Testing with wikipedia_bloomz_test_with_\n_without_unicode

Accuracy: 0.5025

Precision: 0.5013

Recall: 1.0000

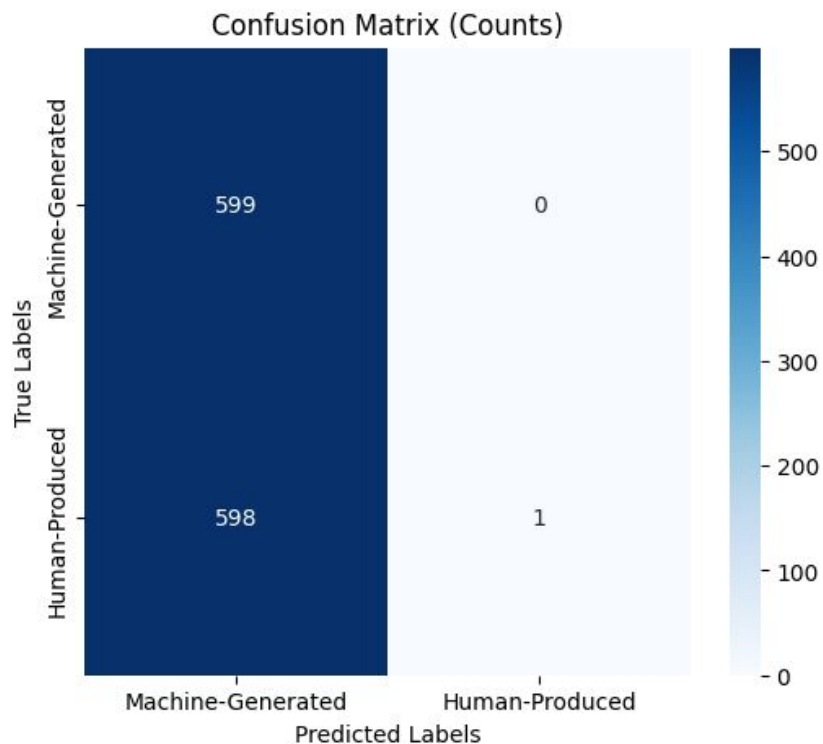
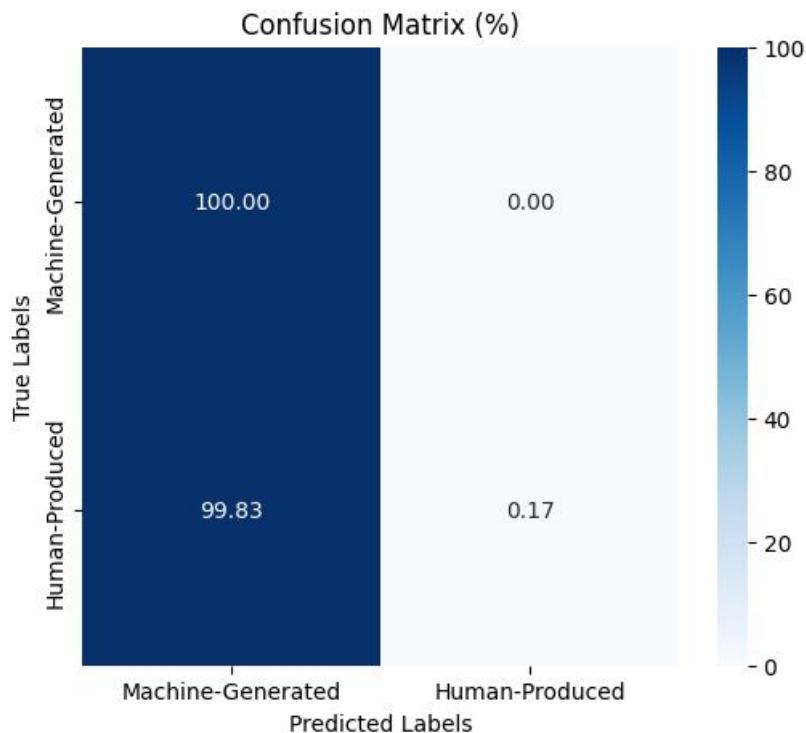


Testing with wikipedia_chatgpt_test_with_\n_without_unicode

Accuracy: 0.5008

Precision: 0.5004

Recall: 1.0000



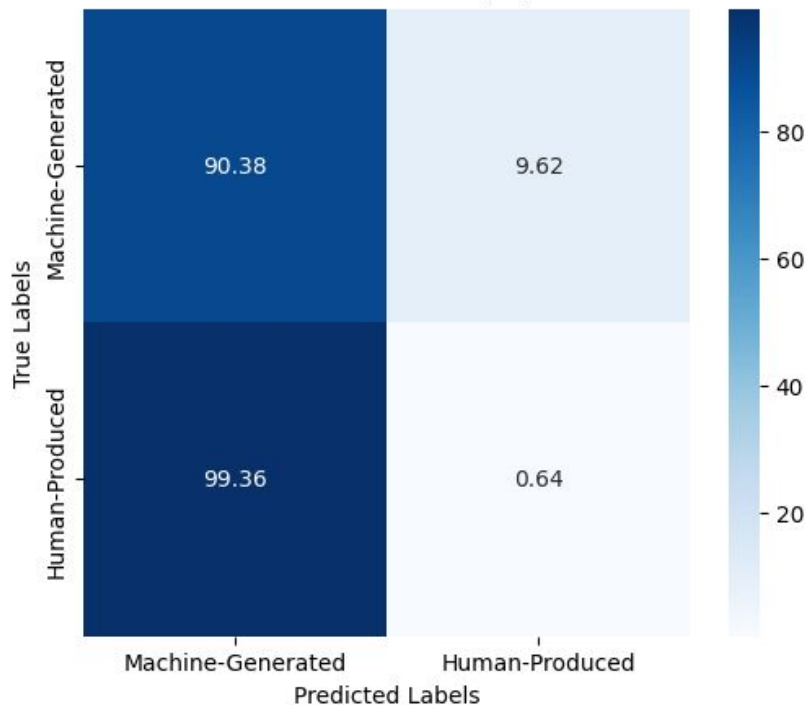
Testing with wikipedia_cohere_test_with_\n_without_unicode

Accuracy: 0.4551

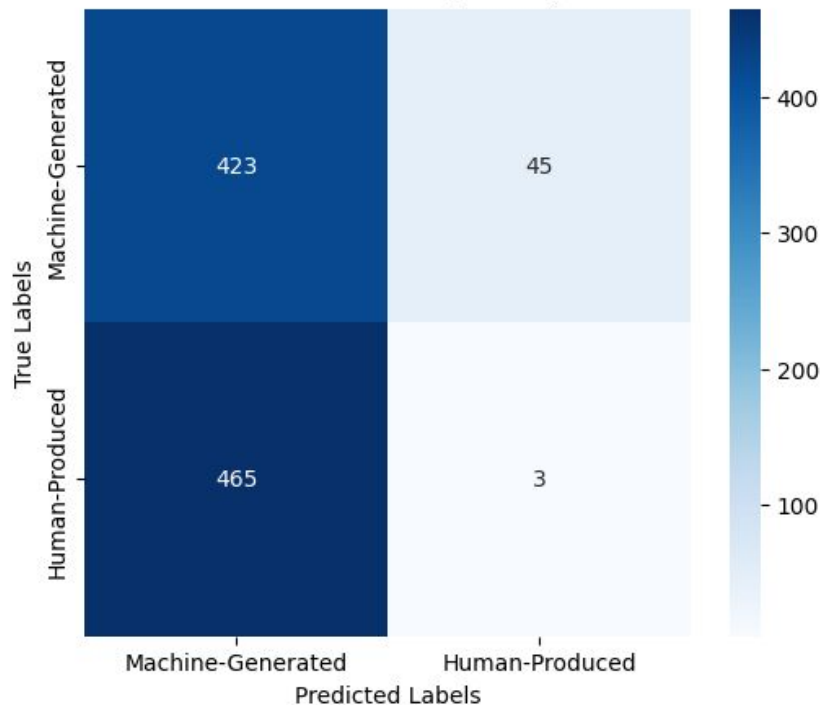
Precision: 0.4764

Recall: 0.9038

Confusion Matrix (%)



Confusion Matrix (Counts)

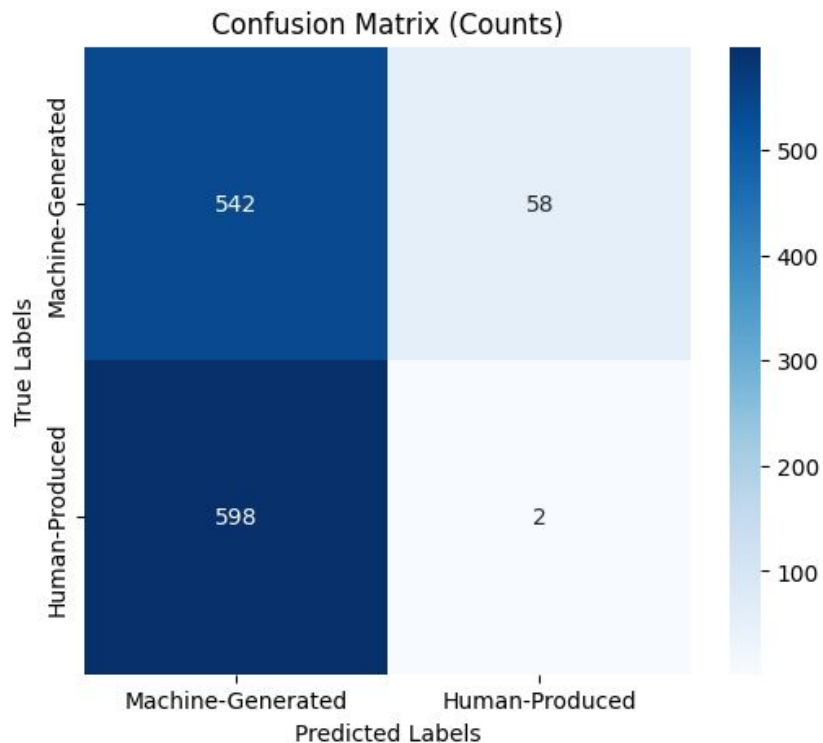
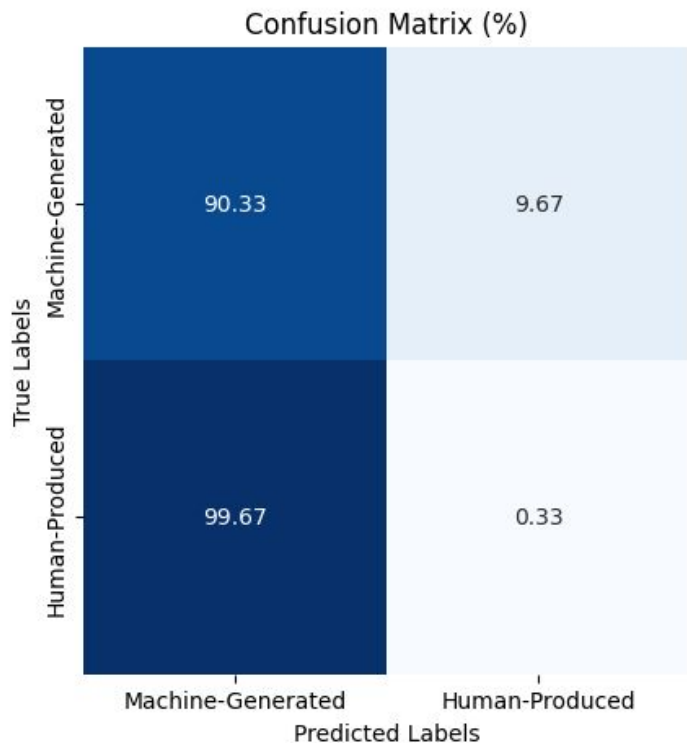


Testing with wikipedia_davinci_test_with_\n_without_unicode

Accuracy: 0.4533

Precision: 0.4754

Recall: 0.9033



**Bloomz-560m-academic-detector: finetune using
arxiv_bloomz_\n_removed + wikipedia_bloomz_with_\n**

Test using:

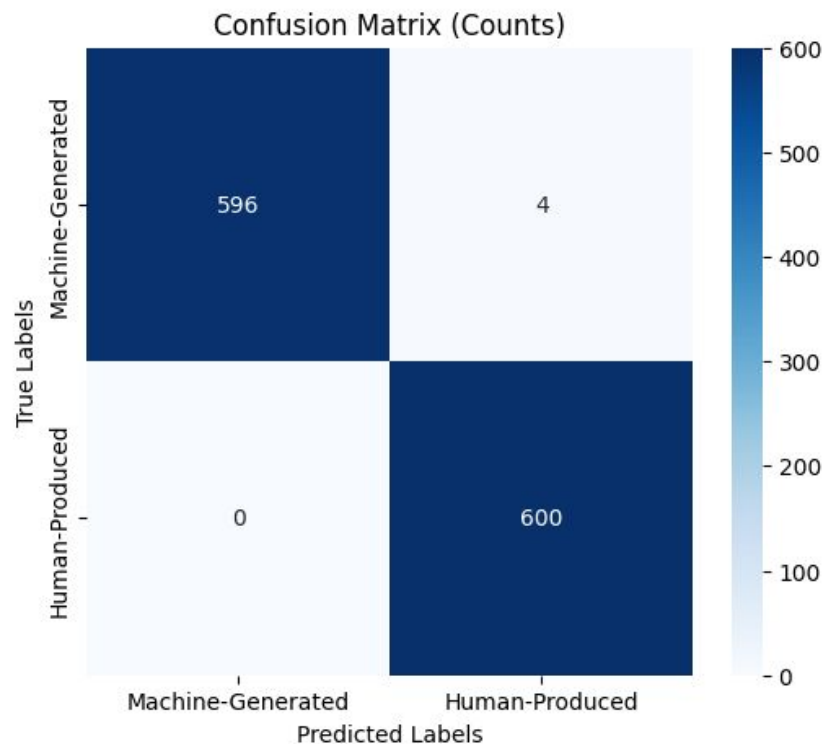
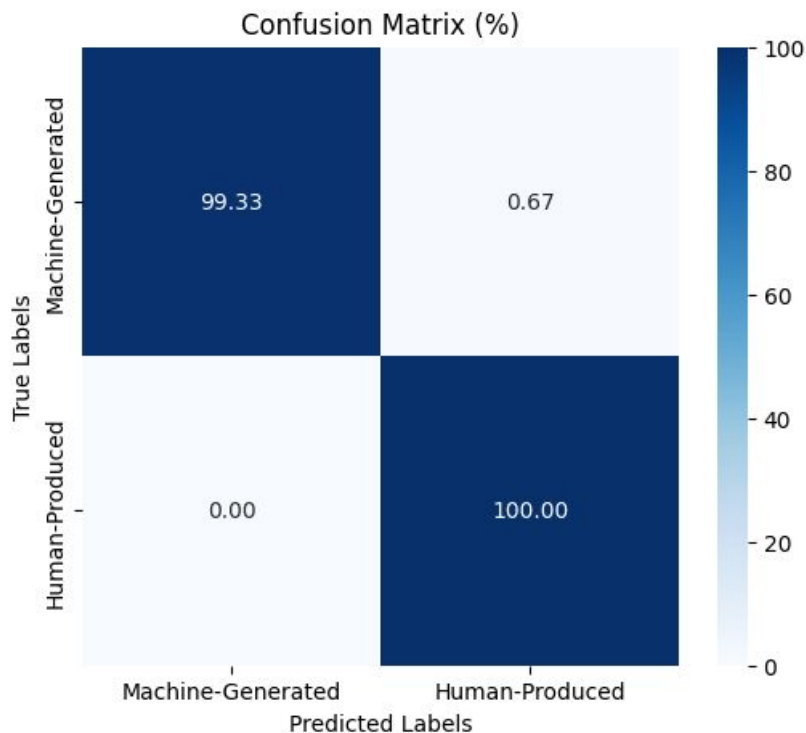
arxiv_\n_removed_(chatGPT,cohere,flant5,davinci,bloomz)_test_set

Testing with wikipedia_bloomz_with_\n held-out test_dataset

Accuracy: 0.9967

Precision: 1.0000

Recall: 0.9933

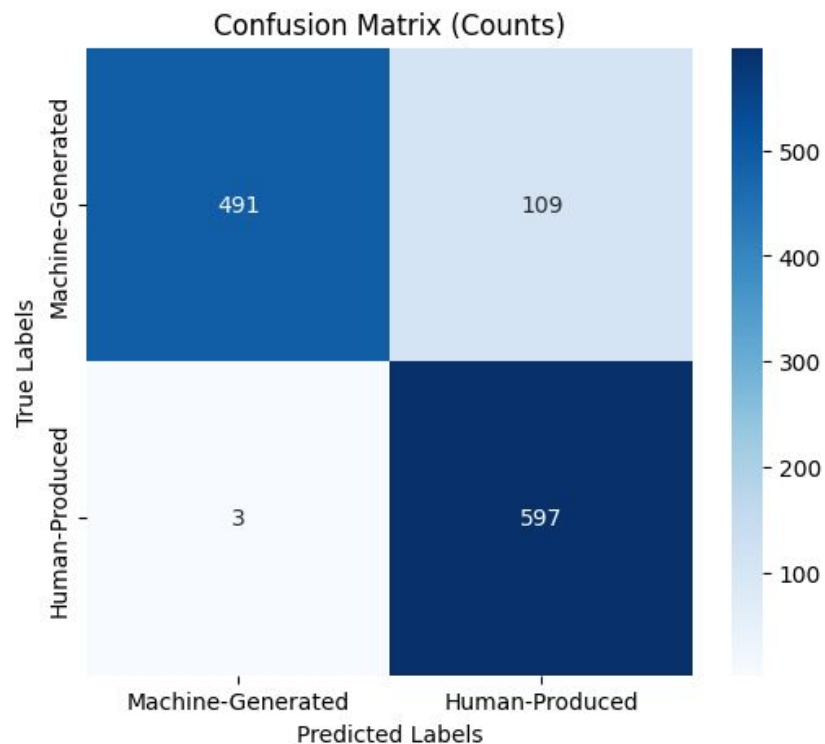
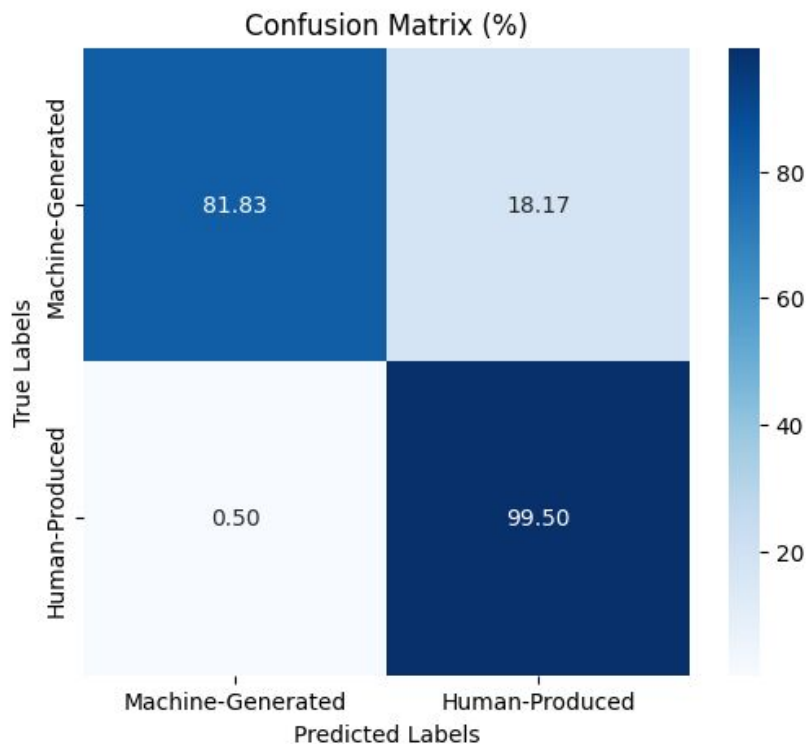


Testing with arxiv_bloomz_\n_removed_test

Accuracy: 0.9067

Precision: 0.9939

Recall: 0.8183



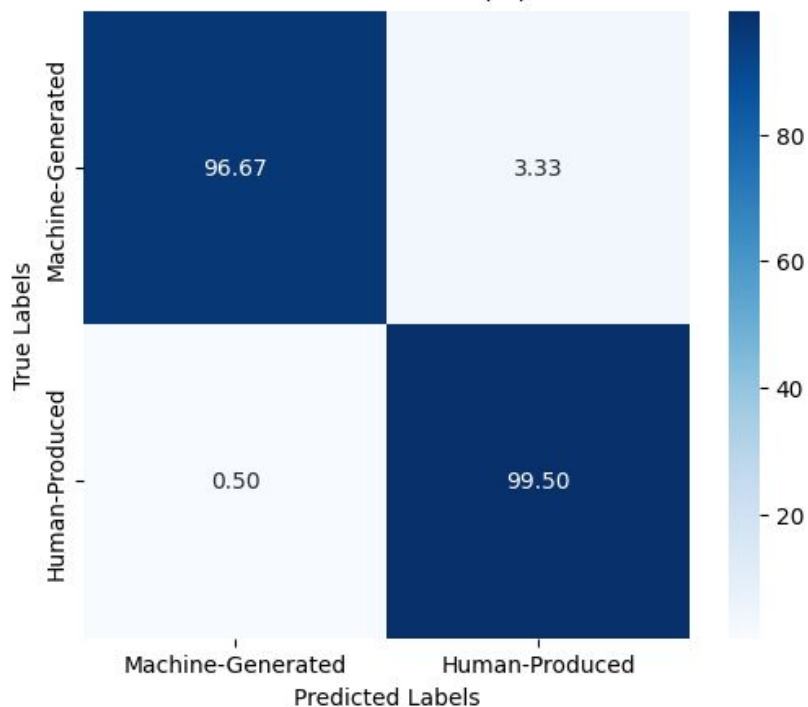
Testing with arxiv_ChatGPT_\n_removed_test

Accuracy: 0.9808

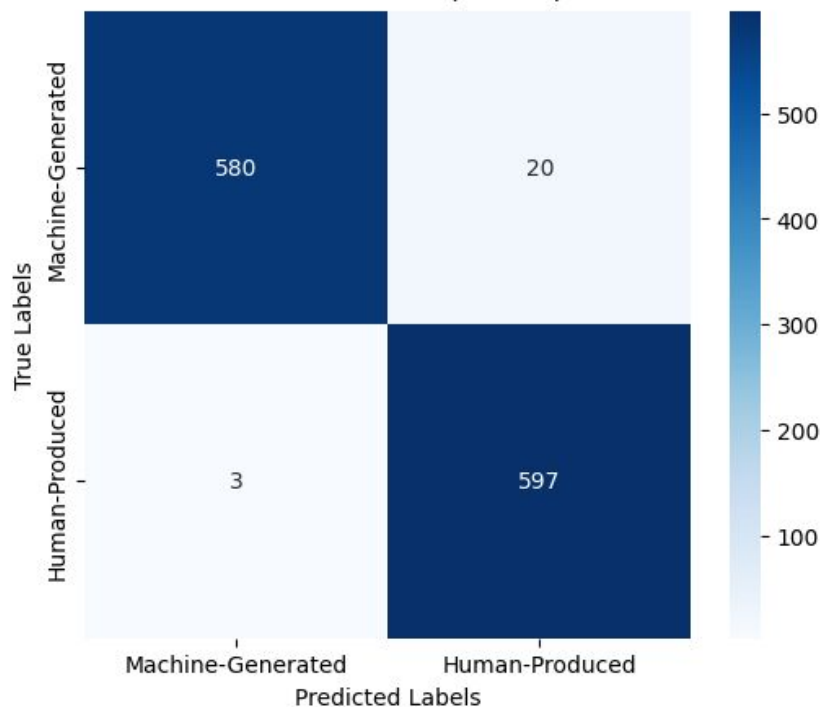
Precision: 0.9949

Recall: 0.9667

Confusion Matrix (%)



Confusion Matrix (Counts)



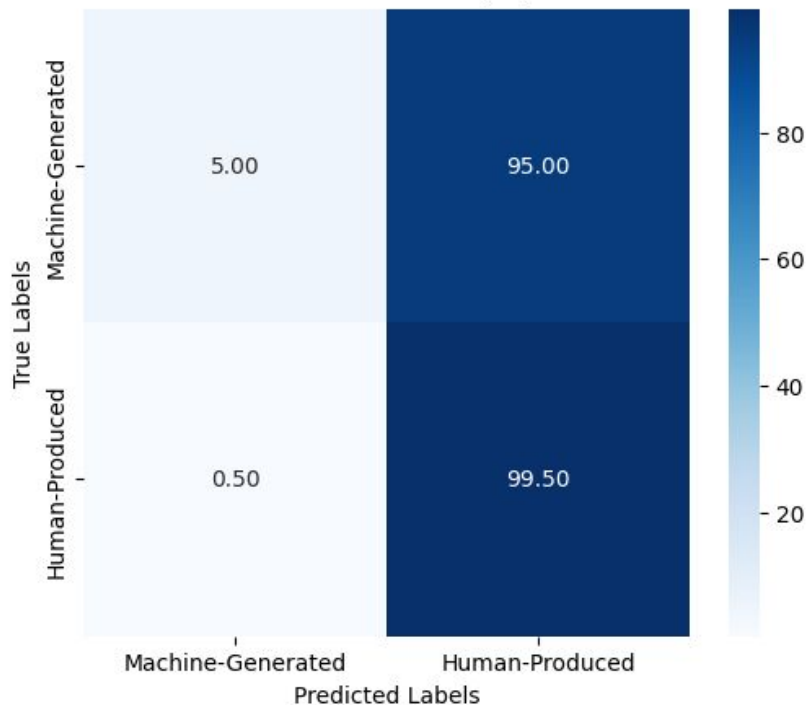
Testing with arxiv_cohere_\n_removed_test

Accuracy: 0.5225

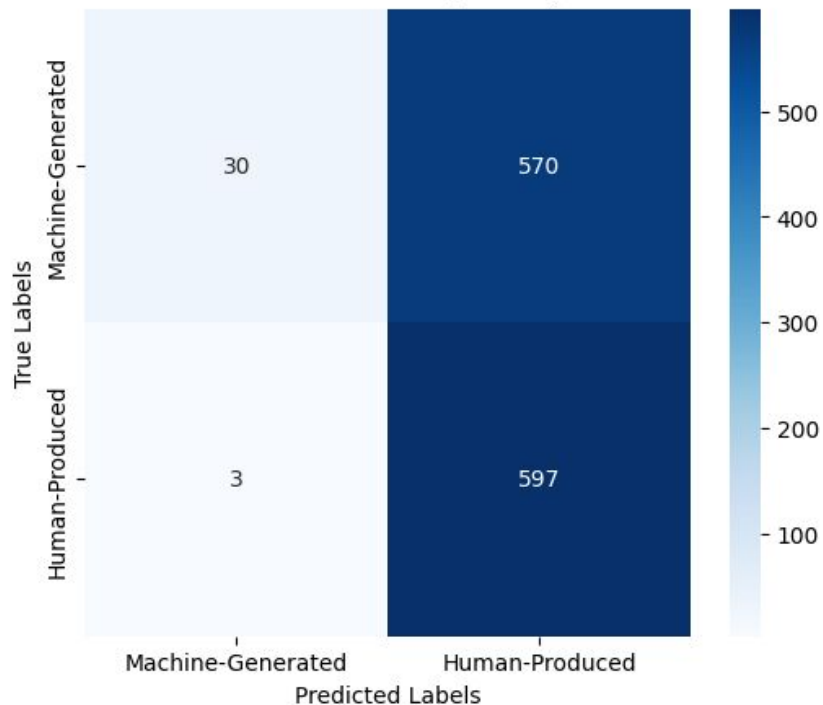
Precision: 0.9091

Recall: 0.0500

Confusion Matrix (%)



Confusion Matrix (Counts)



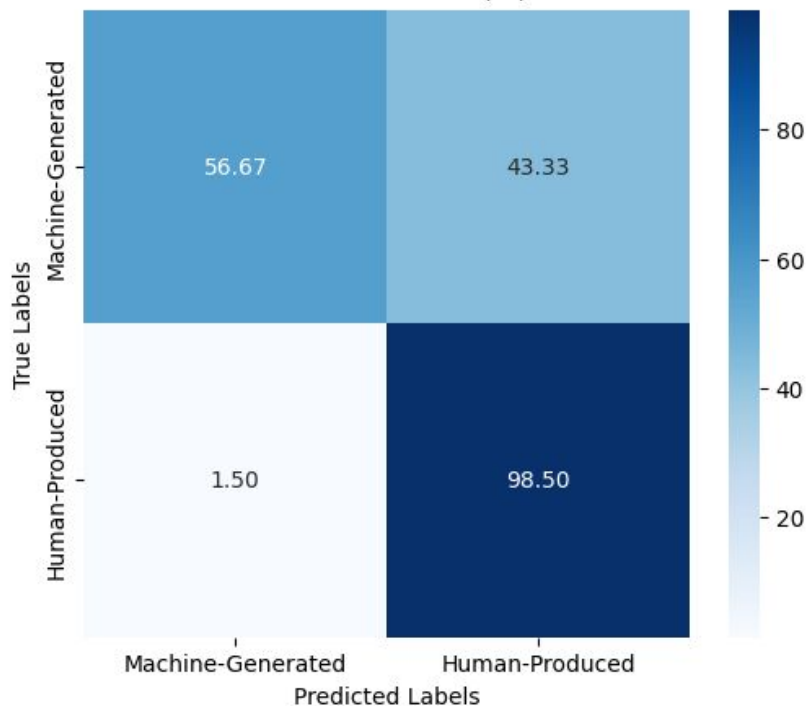
Testing with arxiv_davinci_n_removed_test

Accuracy: 0.7758

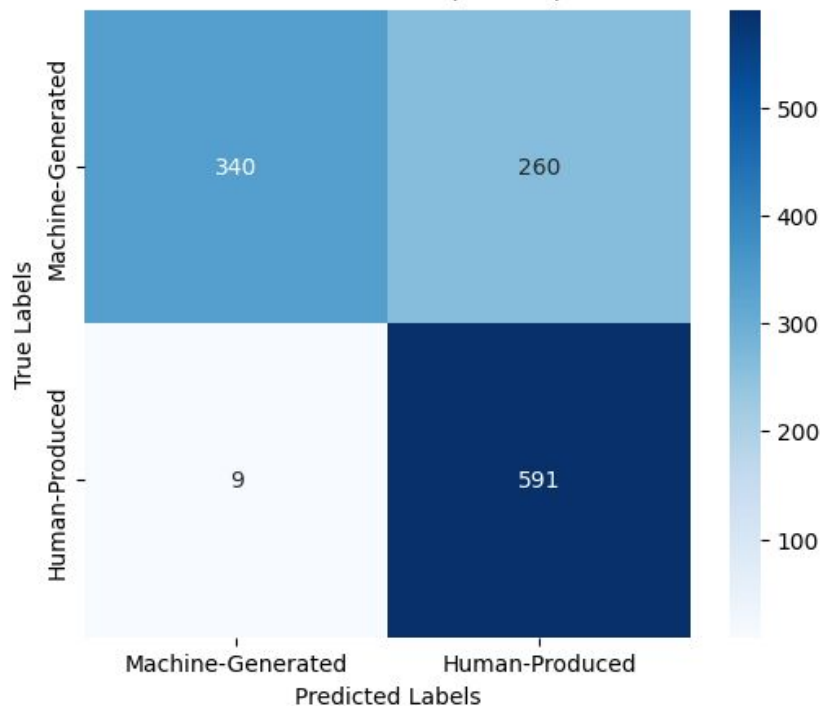
Precision: 0.9742

Recall: 0.5667

Confusion Matrix (%)



Confusion Matrix (Counts)

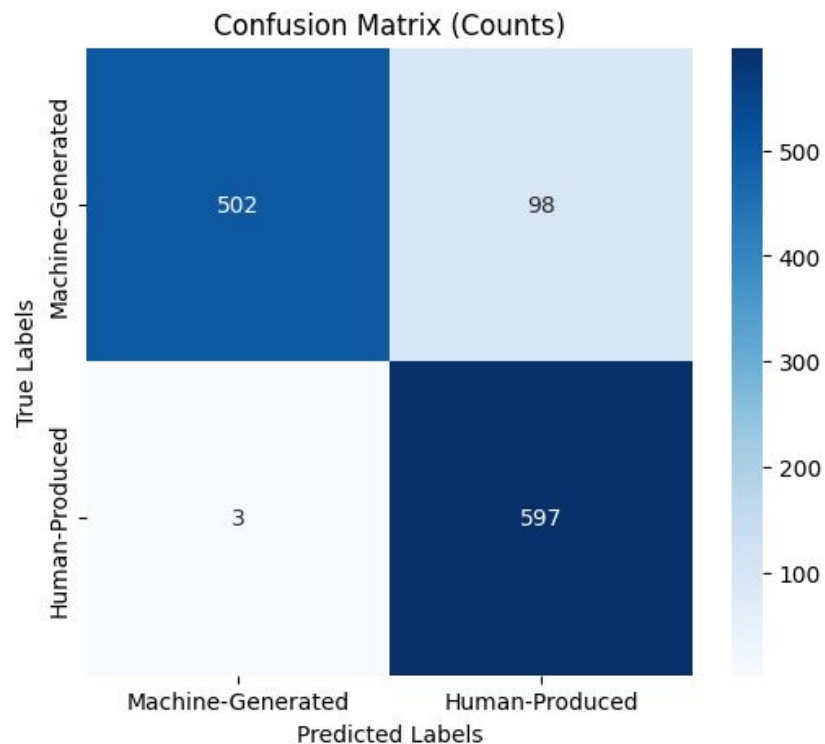
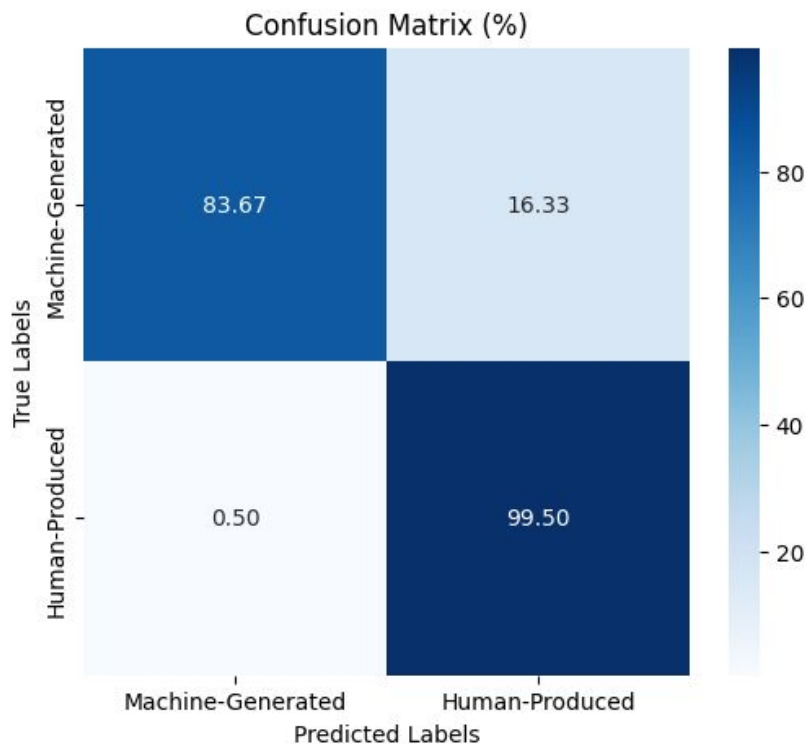


Testing with arxiv_flant5_\n_removed_test

Accuracy: 0.9158

Precision: 0.9941

Recall: 0.8367



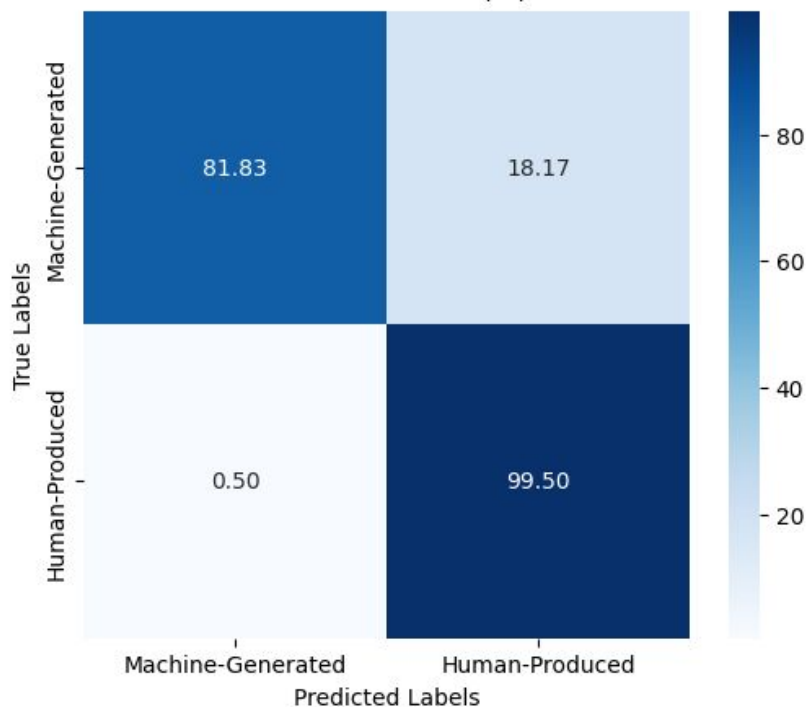
Testing with arxiv_bloomz_paraphrased_\n_removed_test

Accuracy: 0.9067

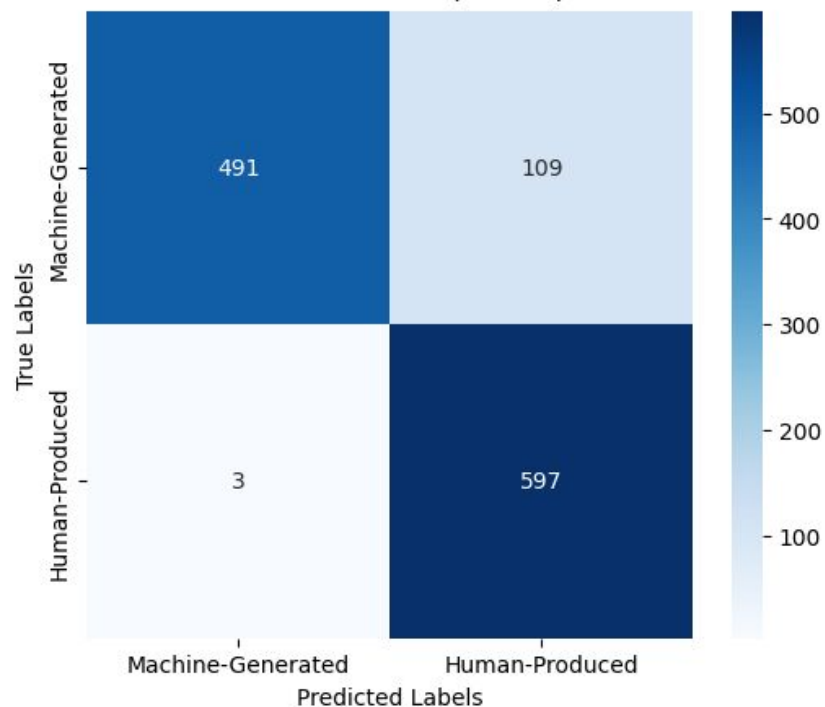
Precision: 0.9939

Recall: 0.8183

Confusion Matrix (%)



Confusion Matrix (Counts)



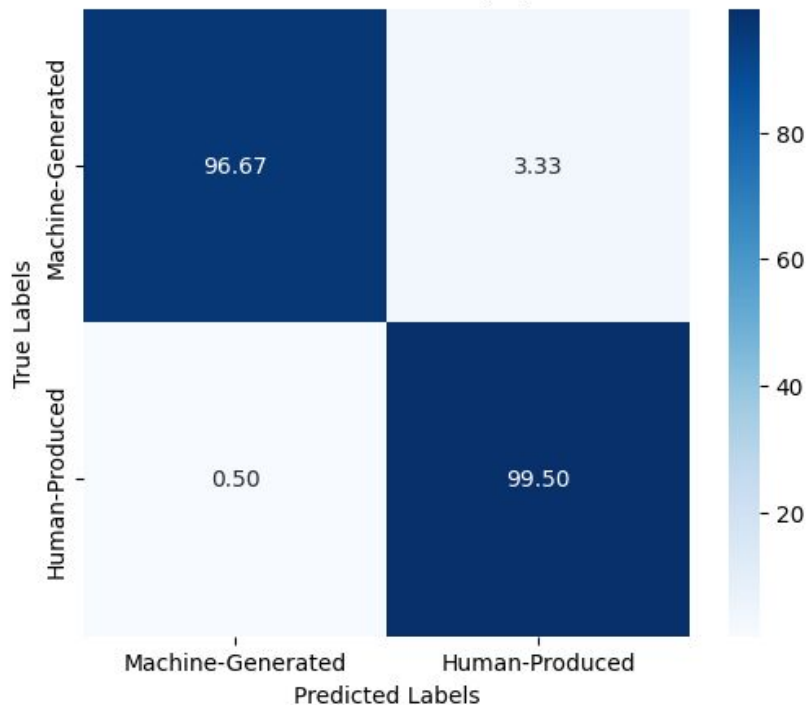
Testing with arxiv_chatGPT_paraphrased_\n_removed_test

Accuracy: 0.9808

Precision: 0.9949

Recall: 0.9667

Confusion Matrix (%)



Confusion Matrix (Counts)

