

C:\Users\Florin\AppData\Local\Programs\Python\Python310\python.exe "D:/Facultate/Anul III/Sem II/Introducere in prelucrarea limbajului natural NLP/Project/Doodling/lyric\_classifier.py"

2022-05-11 04:32:26.562240: W tensorflow/stream\_executor/platform/default/dso\_loader.cc:64] Could not load dynamic library 'cudart64\_110.dll'; dlerror: cudart64\_110.dll not found

2022-05-11 04:32:26.562354: I tensorflow/stream\_executor/cuda/cudart\_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.  
13.32986307144165

Classification time for DT: 1.3749361038208008

precision recall f1-score support

hip hop	0.98	0.22	0.36	198
pop	0.25	0.97	0.40	1398
reggae	0.76	0.06	0.10	515
rock	0.48	0.14	0.22	784

micro avg	0.27	0.53	0.36	2895
macro avg	0.62	0.35	0.27	2895
weighted avg	0.46	0.53	0.30	2895

C:\Users\Florin\AppData\Roaming\Python\Python310\site-packages\sklearn\linear\_model\\_stochastic\_gradient.py:696: ConvergenceWarning: Maximum number of iteration reached before convergence. Consider increasing max\_iter to improve the fit.

warnings.warn(

Classification time for SS\_SGDClassifier: 67.06196975708008

precision recall f1-score support

blues	0.24	0.19	0.21	926
country	0.39	0.40	0.39	1123
hip hop	0.55	0.41	0.47	198
jazz	0.22	0.25	0.24	731
pop	0.32	0.35	0.33	1398
reggae	0.35	0.28	0.31	515
rock	0.28	0.29	0.28	784

accuracy		0.31		5675
macro avg	0.33	0.31	0.32	5675
weighted avg	0.31	0.31	0.31	5675

Classification time for RF: 2.1401278972625732

precision recall f1-score support

pop	0.25	1.00	0.40	1398
-----	------	------	------	------

micro avg	0.25	1.00	0.40	1398
-----------	------	------	------	------

macro avg	0.25	1.00	0.40	1398
-----------	------	------	------	------

weighted avg	0.25	1.00	0.40	1398
--------------	------	------	------	------

C:\Users\Florin\AppData\Roaming\Python\Python310\site-packages\sklearn\svm\\_base.py:1206: ConvergenceWarning: Liblinear failed to converge, increase the number of iterations.

warnings.warn(

Classification time for SS\_LinearSVC: 22.78180718421936

precision	recall	f1-score	support
-----------	--------	----------	---------

blues	0.27	0.21	0.24	926
-------	------	------	------	-----

country	0.38	0.55	0.45	1123
---------	------	------	------	------

hip hop	0.43	0.44	0.44	198
---------	------	------	------	-----

jazz	0.26	0.25	0.26	731
------	------	------	------	-----

pop	0.35	0.32	0.33	1398
-----	------	------	------	------

reggae	0.34	0.31	0.32	515
--------	------	------	------	-----

rock	0.33	0.28	0.30	784
------	------	------	------	-----

accuracy		0.34	5675
----------	--	------	------

macro avg	0.34	0.34	0.33	5675
-----------	------	------	------	------

weighted avg	0.33	0.34	0.33	5675
--------------	------	------	------	------

Classification time for MLPC: 68.76074743270874

precision	recall	f1-score	support
-----------	--------	----------	---------

blues	0.26	0.27	0.26	926
-------	------	------	------	-----

country	0.42	0.45	0.44	1123
---------	------	------	------	------

hip hop	0.54	0.46	0.50	198
---------	------	------	------	-----

jazz	0.27	0.28	0.27	731
------	------	------	------	-----

pop	0.33	0.30	0.31	1398
-----	------	------	------	------

reggae	0.30	0.29	0.29	515
--------	------	------	------	-----

rock	0.27	0.28	0.27	784
------	------	------	------	-----

accuracy		0.32	5675
----------	--	------	------

macro avg	0.34	0.33	0.34	5675
-----------	------	------	------	------

weighted avg	0.32	0.32	0.32	5675
--------------	------	------	------	------

Classification time for GNP: 1.3121647834777832

precision	recall	f1-score	support
-----------	--------	----------	---------

blues	0.24	0.11	0.15	926
-------	------	------	------	-----

country	0.34	0.47	0.39	1123
hip hop	0.08	0.70	0.15	198
jazz	0.19	0.14	0.16	731
pop	0.38	0.11	0.17	1398
reggae	0.28	0.21	0.24	515
rock	0.23	0.21	0.22	784

accuracy			0.23	5675
macro avg	0.25	0.28	0.21	5675
weighted avg	0.29	0.23	0.22	5675

Classification time for SS\_SVC\_rbf: 408.158150434494

	precision	recall	f1-score	support
--	-----------	--------	----------	---------

blues	0.30	0.28	0.29	926
country	0.43	0.51	0.47	1123
hip hop	0.91	0.43	0.59	198
jazz	0.36	0.24	0.28	731
pop	0.33	0.57	0.42	1398
reggae	0.54	0.17	0.26	515
rock	0.46	0.18	0.26	784

accuracy			0.38	5675
macro avg	0.48	0.34	0.37	5675
weighted avg	0.41	0.38	0.36	5675

Process finished with exit code 0