

RESULTADOS CONJUNTO DE DATOS 20NewsGroup

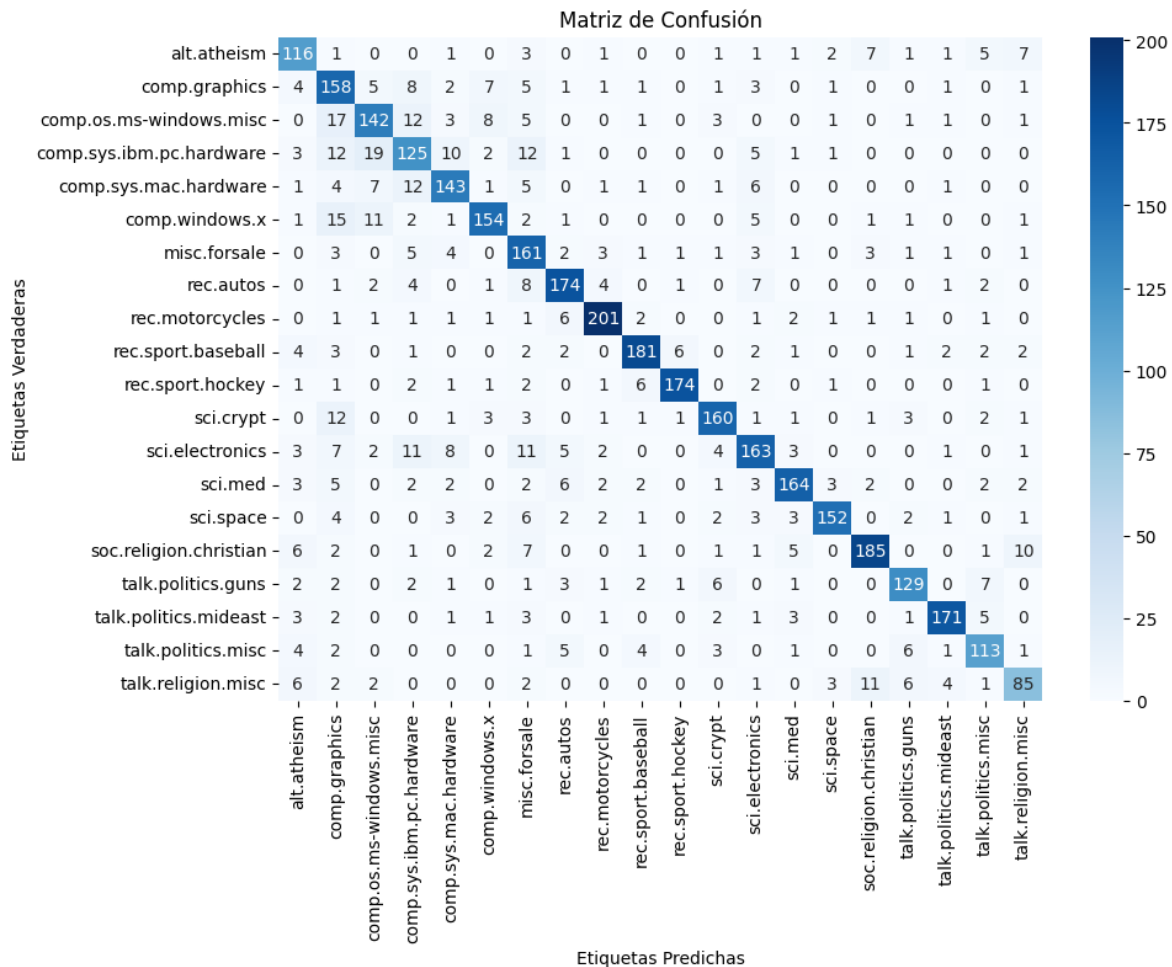
COUNT-VECTORIZER

SVC

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.74	0.78	0.76	148
comp.graphics	0.62	0.79	0.70	199
comp.os.ms-windows.misc	0.74	0.73	0.74	195
comp.sys.ibm.pc.hardware	0.66	0.65	0.66	191
comp.sys.mac.hardware	0.79	0.78	0.78	183
comp.windows.x	0.84	0.79	0.81	195
misc.forsale	0.67	0.84	0.74	191
rec.autos	0.84	0.85	0.84	205
rec.motorcycles	0.91	0.91	0.91	222
rec.sport.baseball	0.89	0.87	0.88	209
rec.sport.hockey	0.95	0.90	0.92	193
sci.crypt	0.86	0.84	0.85	191
sci.electronics	0.78	0.74	0.76	221
sci.med	0.88	0.82	0.85	201
sci.space	0.92	0.83	0.87	184
soc.religion.christian	0.88	0.83	0.85	222
talk.politics.guns	0.84	0.82	0.83	158
talk.politics.mideast	0.92	0.88	0.90	194
talk.politics.misc	0.80	0.80	0.80	141
talk.religion.misc	0.75	0.69	0.72	123
accuracy			0.81	3766
macro avg	0.81	0.81	0.81	3766
weighted avg	0.82	0.81	0.81	3766

Micro-F1 Score: 0.8101



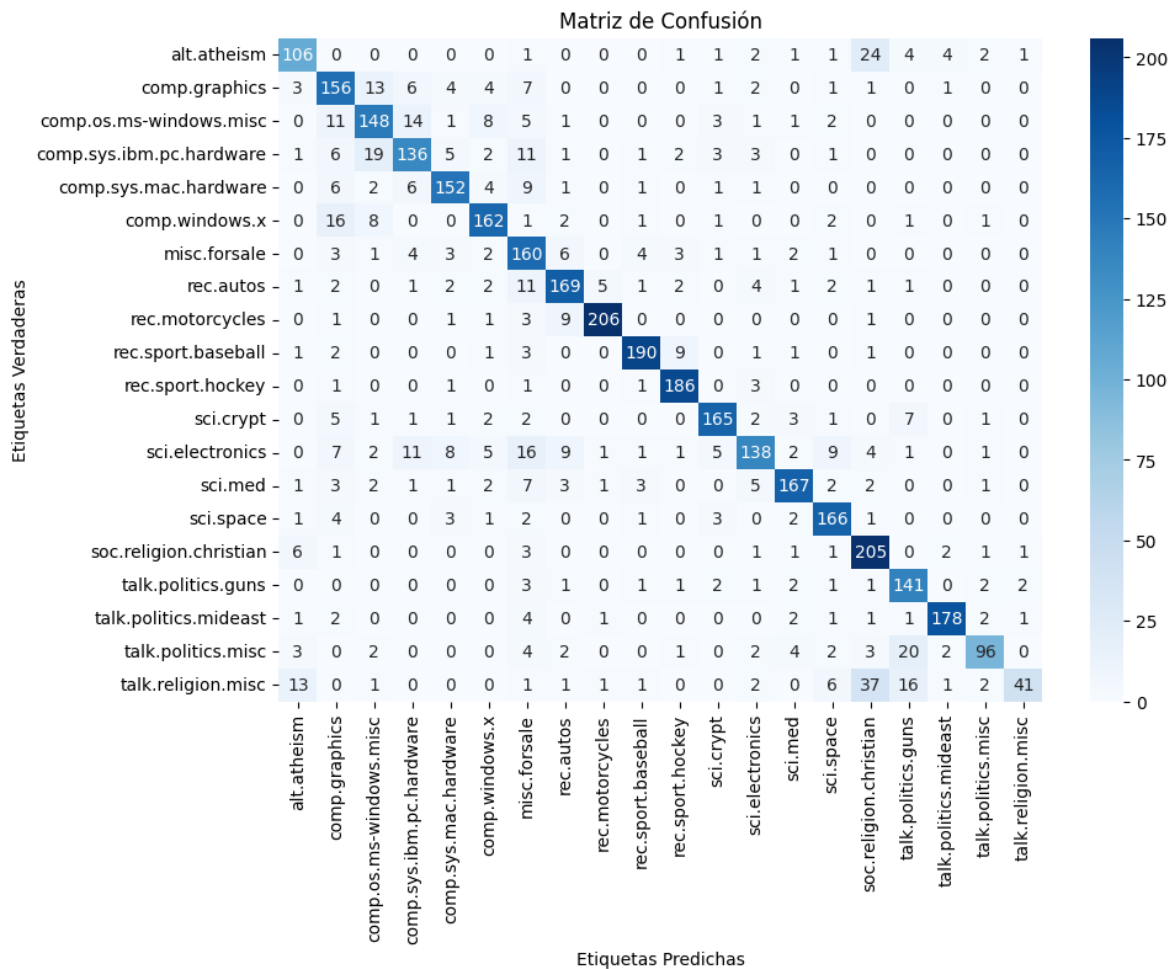
Random forest

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.77	0.72	0.74	148
comp.graphics	0.69	0.78	0.73	199
comp.os.ms-windows.misc	0.74	0.76	0.75	195
comp.sys.ibm.pc.hardware	0.76	0.71	0.73	191
comp.sys.mac.hardware	0.84	0.83	0.83	183
comp.windows.x	0.83	0.83	0.83	195
misc.forsale	0.63	0.84	0.72	191
rec.autos	0.82	0.82	0.82	205
rec.motorcycles	0.96	0.93	0.94	222
rec.sport.baseball	0.92	0.91	0.92	209
rec.sport.hockey	0.90	0.96	0.93	193
sci.crypt	0.89	0.86	0.88	191
sci.electronics	0.82	0.62	0.71	221
sci.med	0.88	0.83	0.86	201
sci.space	0.83	0.90	0.87	184
soc.religion.christian	0.73	0.92	0.81	222
talk.politics.guns	0.73	0.89	0.81	158

talk.politics.mideast	0.95	0.92	0.93	194
talk.politics.misc	0.88	0.68	0.77	141
talk.religion.misc	0.89	0.33	0.49	123
accuracy			0.81	3766
macro avg	0.82	0.80	0.80	3766
weighted avg	0.82	0.81	0.81	3766

Micro-F1 Score: 0.8147



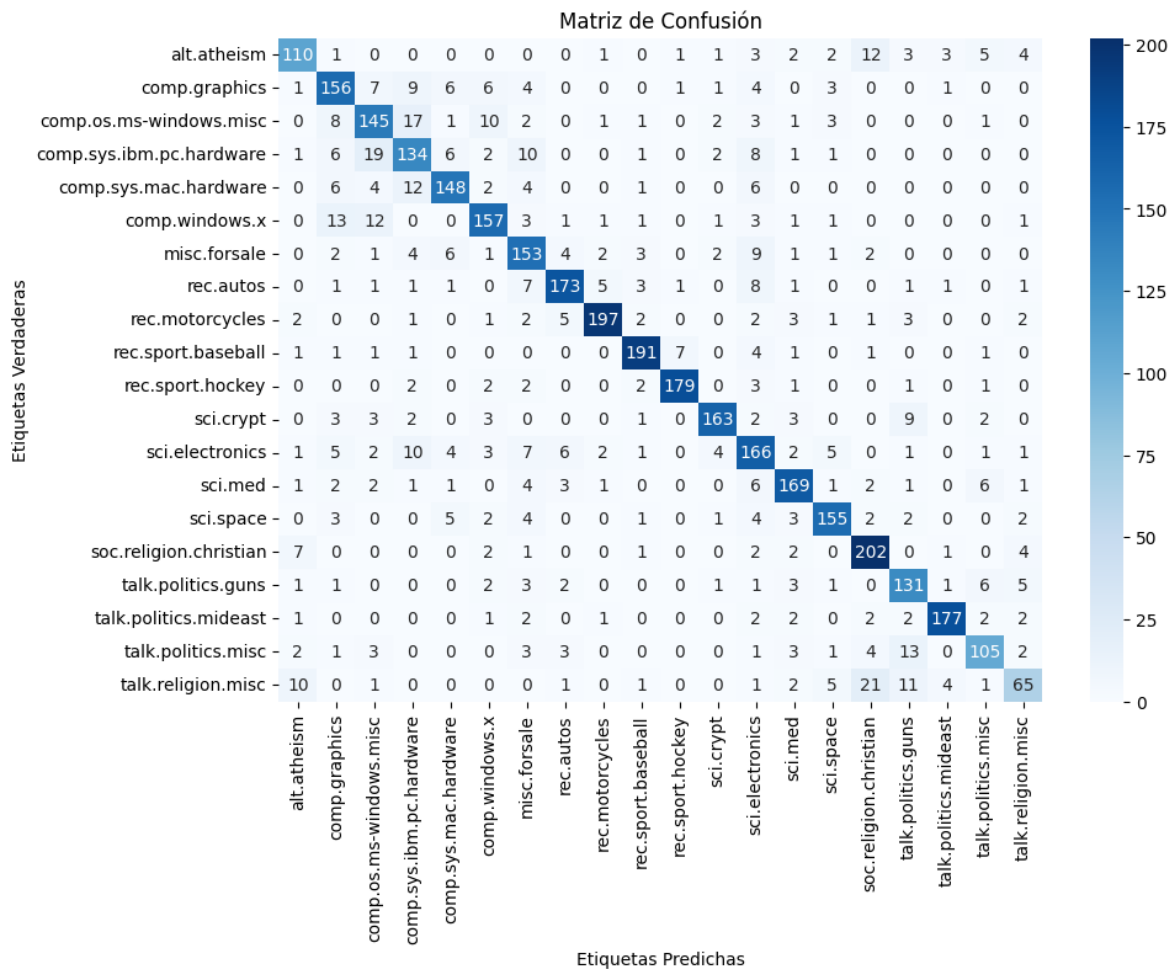
XGBOOST

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.80	0.74	0.77	148
comp.graphics	0.75	0.78	0.76	199
comp.os.ms-windows.misc	0.72	0.74	0.73	195
comp.sys.ibm.pc.hardware	0.69	0.70	0.70	191
comp.sys.mac.hardware	0.83	0.81	0.82	183
comp.windows.x	0.81	0.81	0.81	195
misc.forsale	0.73	0.80	0.76	191

rec.autos	0.87	0.84	0.86	205
rec.motorcycles	0.93	0.89	0.91	222
rec.sport.baseball	0.91	0.91	0.91	209
rec.sport.hockey	0.95	0.93	0.94	193
sci.crypt	0.92	0.85	0.88	191
sci.electronics	0.70	0.75	0.72	221
sci.med	0.84	0.84	0.84	201
sci.space	0.86	0.84	0.85	184
soc.religion.christian	0.81	0.91	0.86	222
talk.politics.guns	0.74	0.83	0.78	158
talk.politics.mideast	0.94	0.91	0.93	194
talk.politics.misc	0.80	0.74	0.77	141
talk.religion.misc	0.72	0.53	0.61	123
accuracy			0.82	3766
macro avg	0.82	0.81	0.81	3766
weighted avg	0.82	0.82	0.82	3766

Micro-F1 Score: 0.8168



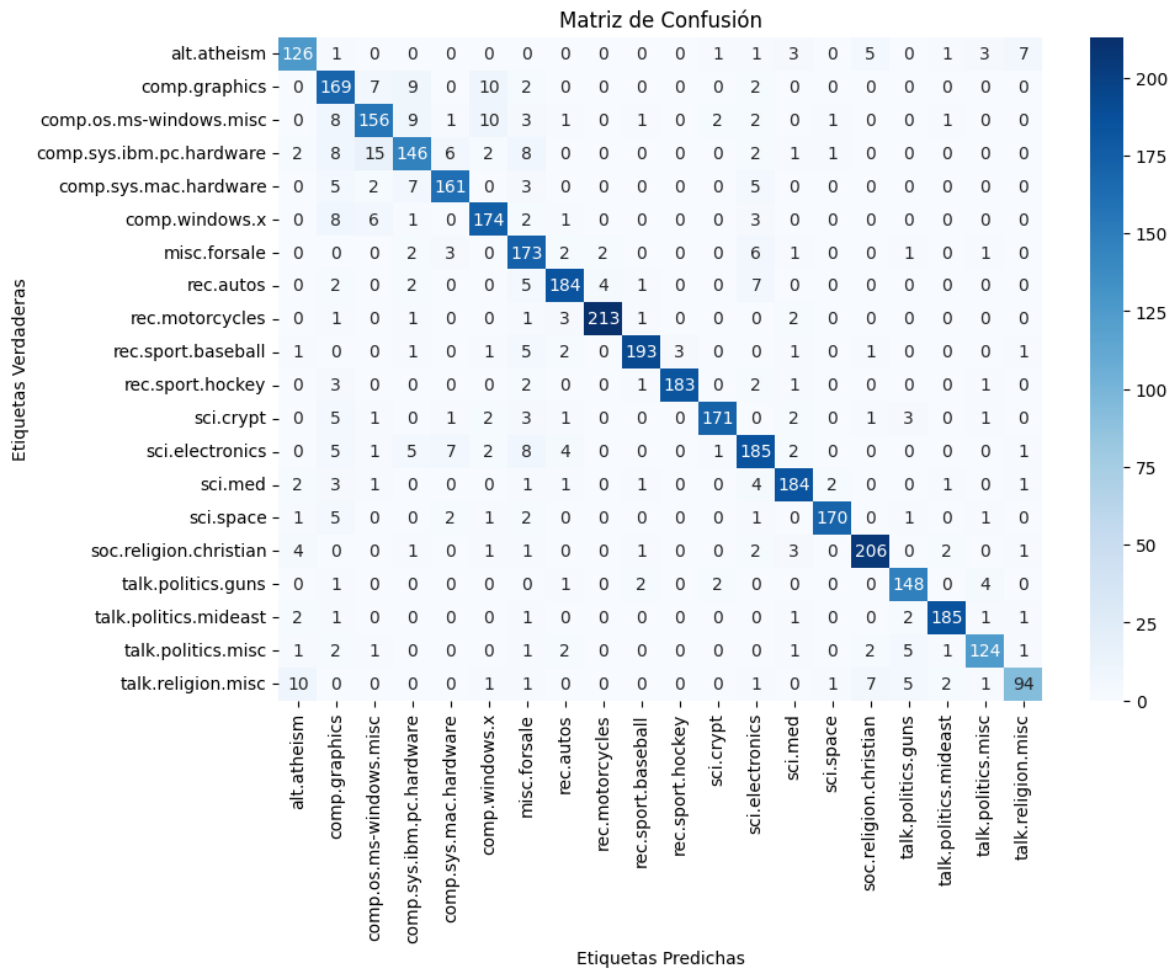
TF-IDF

SVC

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.85	0.85	0.85	148
comp.graphics	0.74	0.85	0.79	199
comp.os.ms-windows.misc	0.82	0.80	0.81	195
comp.sys.ibm.pc.hardware	0.79	0.76	0.78	191
comp.sys.mac.hardware	0.89	0.88	0.88	183
comp.windows.x	0.85	0.89	0.87	195
misc.forsale	0.78	0.91	0.84	191
rec.autos	0.91	0.90	0.90	205
rec.motorcycles	0.97	0.96	0.97	222
rec.sport.baseball	0.96	0.92	0.94	209
rec.sport.hockey	0.98	0.95	0.97	193
sci.crypt	0.97	0.90	0.93	191
sci.electronics	0.83	0.84	0.83	221
sci.med	0.91	0.92	0.91	201
sci.space	0.97	0.92	0.95	184
soc.religion.christian	0.93	0.93	0.93	222
talk.politics.guns	0.90	0.94	0.92	158
talk.politics.mideast	0.96	0.95	0.96	194
talk.politics.misc	0.91	0.88	0.89	141
talk.religion.misc	0.88	0.76	0.82	123
accuracy			0.89	3766
macro avg	0.89	0.89	0.89	3766
weighted avg	0.89	0.89	0.89	3766

Micro-F1 Score: 0.8882



RF

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.77	0.72	0.74	148
comp.graphics	0.63	0.73	0.68	199
comp.os.ms-windows.misc	0.73	0.73	0.73	195
comp.sys.ibm.pc.hardware	0.70	0.70	0.70	191
comp.sys.mac.hardware	0.84	0.81	0.82	183
comp.windows.x	0.79	0.82	0.81	195
misc.forsale	0.65	0.84	0.73	191
rec.autos	0.81	0.79	0.80	205
rec.motorcycles	0.94	0.92	0.93	222
rec.sport.baseball	0.90	0.89	0.90	209
rec.sport.hockey	0.89	0.96	0.93	193
sci.crypt	0.88	0.87	0.88	191
sci.electronics	0.82	0.58	0.68	221
sci.med	0.84	0.81	0.83	201
sci.space	0.80	0.87	0.83	184
soc.religion.christian	0.72	0.93	0.81	222
talk.politics.guns	0.71	0.84	0.77	158

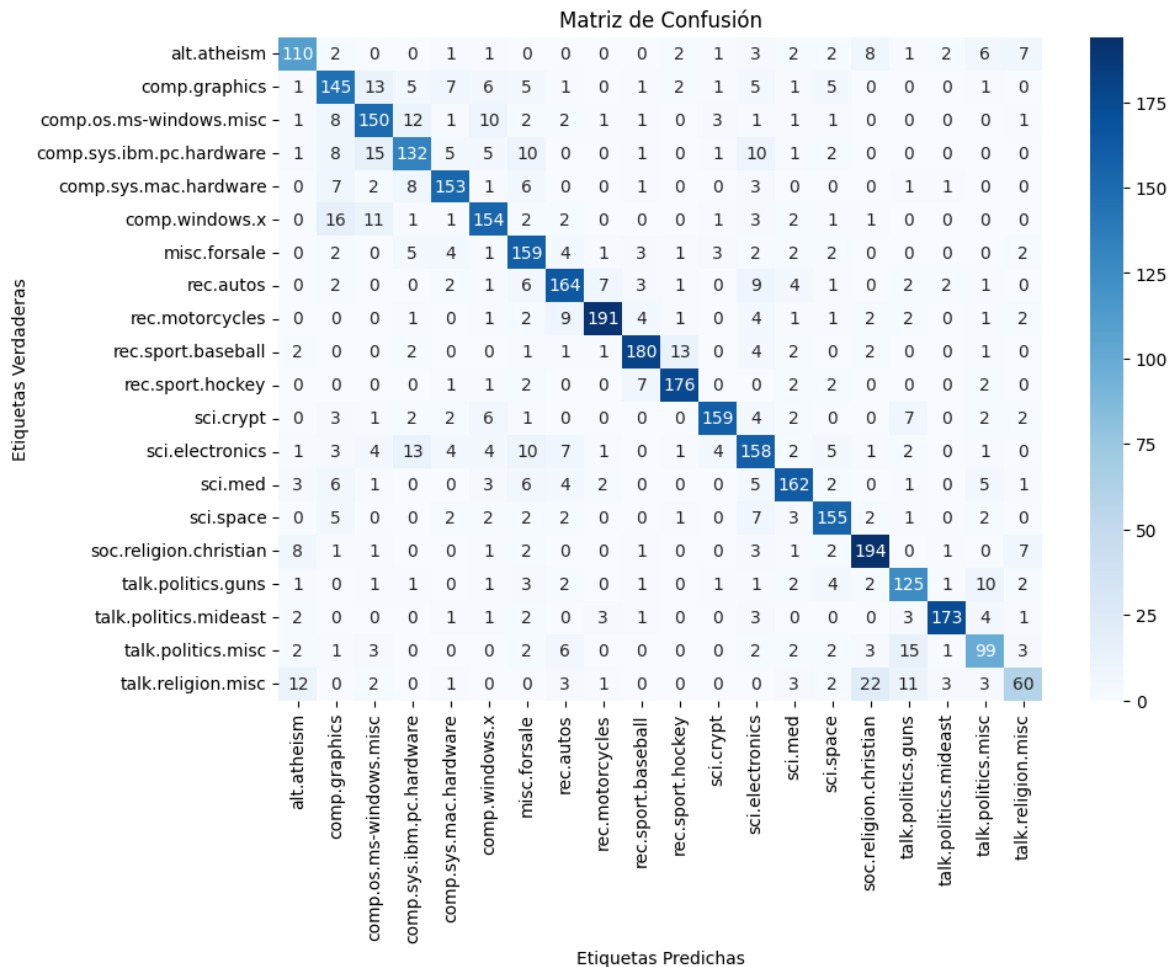
talk.politics.mideast	0.95	0.91	0.93	194
talk.politics.misc	0.85	0.65	0.73	141
talk.religion.misc	0.85	0.28	0.43	123
accuracy			0.80	3766
macro avg	0.80	0.78	0.78	3766
weighted avg	0.80	0.80	0.79	3766

Micro-F1 Score: 0.7955

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.76	0.74	0.75	148
comp.graphics	0.69	0.73	0.71	199
comp.os.ms-windows.misc	0.74	0.77	0.75	195
comp.sys.ibm.pc.hardware	0.73	0.69	0.71	191
comp.sys.mac.hardware	0.83	0.84	0.83	183
comp.windows.x	0.77	0.79	0.78	195
misc.forsale	0.71	0.83	0.77	191
rec.autos	0.79	0.80	0.80	205
rec.motorcycles	0.92	0.86	0.89	222
rec.sport.baseball	0.88	0.86	0.87	209
rec.sport.hockey	0.89	0.91	0.90	193
sci.crypt	0.91	0.83	0.87	191
sci.electronics	0.70	0.71	0.71	221
sci.med	0.83	0.81	0.82	201
sci.space	0.82	0.84	0.83	184
soc.religion.christian	0.82	0.87	0.85	222
talk.politics.guns	0.73	0.79	0.76	158
talk.politics.mideast	0.94	0.89	0.92	194
talk.politics.misc	0.72	0.70	0.71	141
talk.religion.misc	0.68	0.49	0.57	123
accuracy			0.80	3766
macro avg	0.79	0.79	0.79	3766
weighted avg	0.80	0.80	0.80	3766

Micro-F1 Score: 0.7963



word2vec-google-news-300

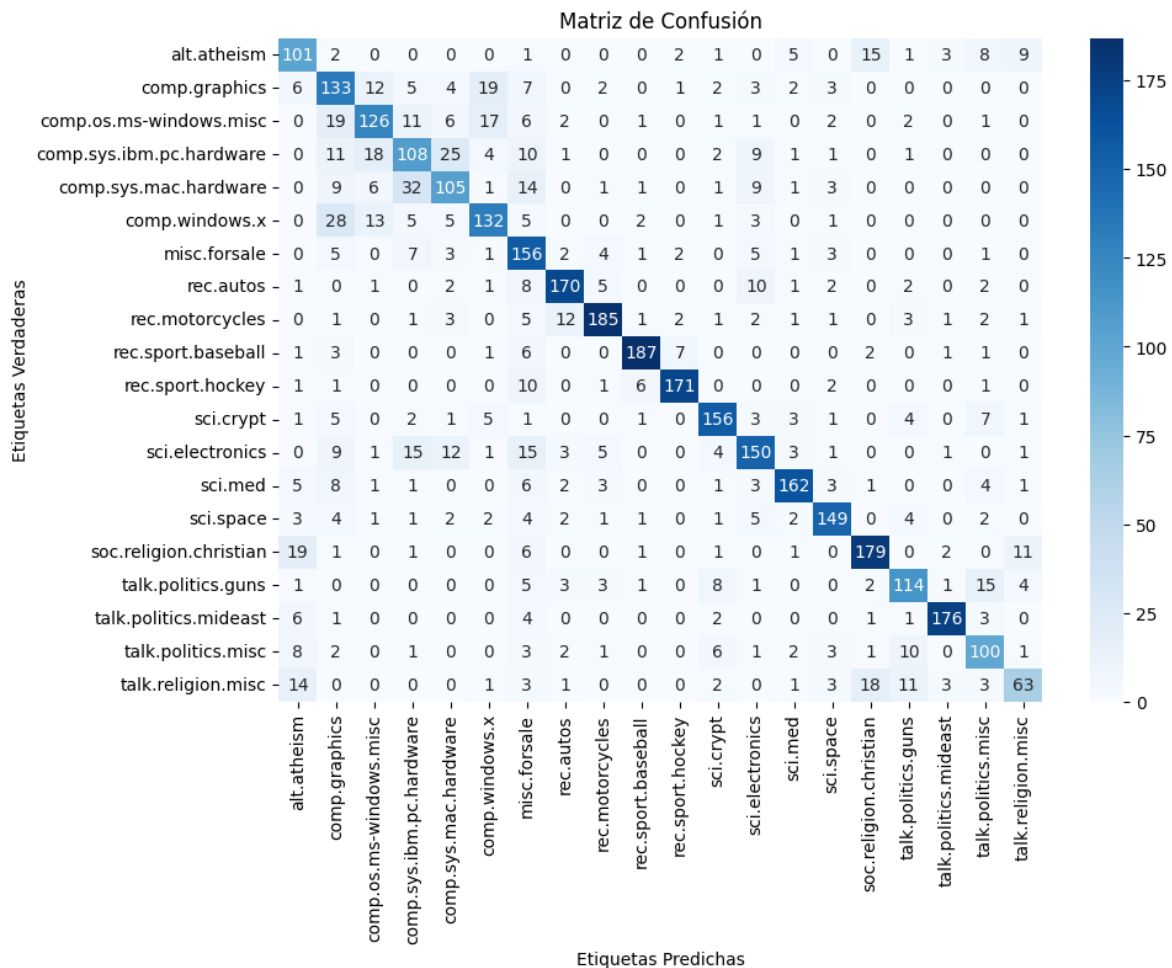
SVC

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.60	0.68	0.64	148
comp.graphics	0.55	0.67	0.60	199
comp.os.ms-windows.misc	0.70	0.65	0.67	195
comp.sys.ibm.pc.hardware	0.57	0.57	0.57	191
comp.sys.mac.hardware	0.62	0.57	0.60	183
comp.windows.x	0.71	0.68	0.69	195
misc.forsale	0.57	0.82	0.67	191
rec.autos	0.85	0.83	0.84	205
rec.motorcycles	0.88	0.83	0.85	222
rec.sport.baseball	0.92	0.89	0.91	209
rec.sport.hockey	0.92	0.89	0.90	193
sci.crypt	0.82	0.82	0.82	191
sci.electronics	0.73	0.68	0.70	221
sci.med	0.87	0.81	0.84	201
sci.space	0.84	0.81	0.82	184

soc.religion.christian	0.82	0.81	0.81	222
talk.politics.guns	0.75	0.72	0.73	158
talk.politics.mideast	0.94	0.91	0.92	194
talk.politics.misc	0.67	0.71	0.69	141
talk.religion.misc	0.68	0.51	0.59	123
accuracy			0.75	3766
macro avg	0.75	0.74	0.74	3766
weighted avg	0.76	0.75	0.75	3766

Micro-F1 Score: 0.7496



RF

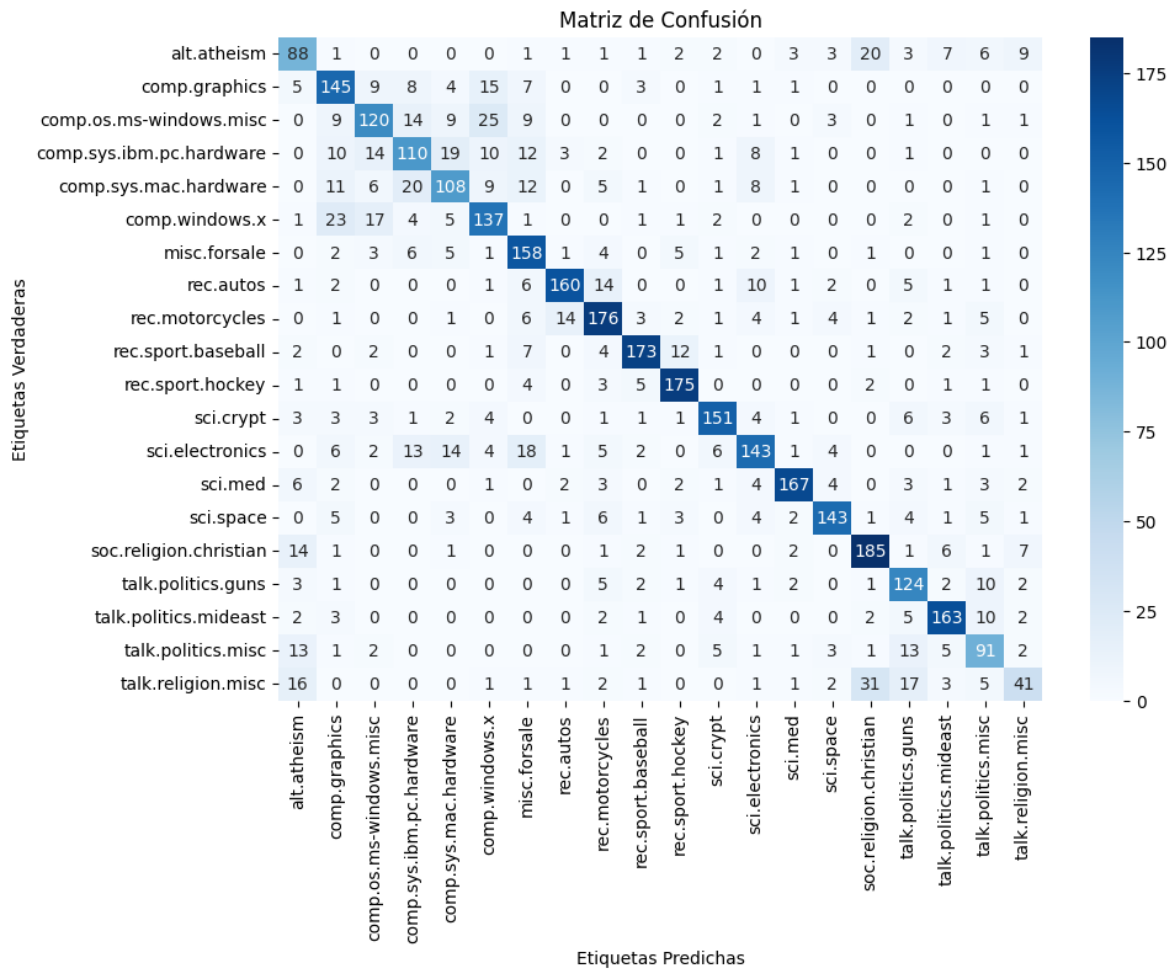
XBOOST

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.57	0.59	0.58	148
comp.graphics	0.64	0.73	0.68	199
comp.os.ms-windows.misc	0.67	0.62	0.64	195

comp.sys.ibm.pc.hardware	0.62	0.58	0.60	191
comp.sys.mac.hardware	0.63	0.59	0.61	183
comp.windows.x	0.66	0.70	0.68	195
misc.forsale	0.64	0.83	0.72	191
rec.autos	0.87	0.78	0.82	205
rec.motorcycles	0.75	0.79	0.77	222
rec.sport.baseball	0.87	0.83	0.85	209
rec.sport.hockey	0.85	0.91	0.88	193
sci.crypt	0.82	0.79	0.81	191
sci.electronics	0.74	0.65	0.69	221
sci.med	0.90	0.83	0.86	201
sci.space	0.85	0.78	0.81	184
soc.religion.christian	0.75	0.83	0.79	222
talk.politics.guns	0.66	0.78	0.72	158
talk.politics.mideast	0.83	0.84	0.84	194
talk.politics.misc	0.60	0.65	0.62	141
talk.religion.misc	0.59	0.33	0.42	123
accuracy			0.73	3766
macro avg	0.73	0.72	0.72	3766
weighted avg	0.73	0.73	0.73	3766

Micro-F1 Score: 0.7323



Word2-to-vect Entrenado 100

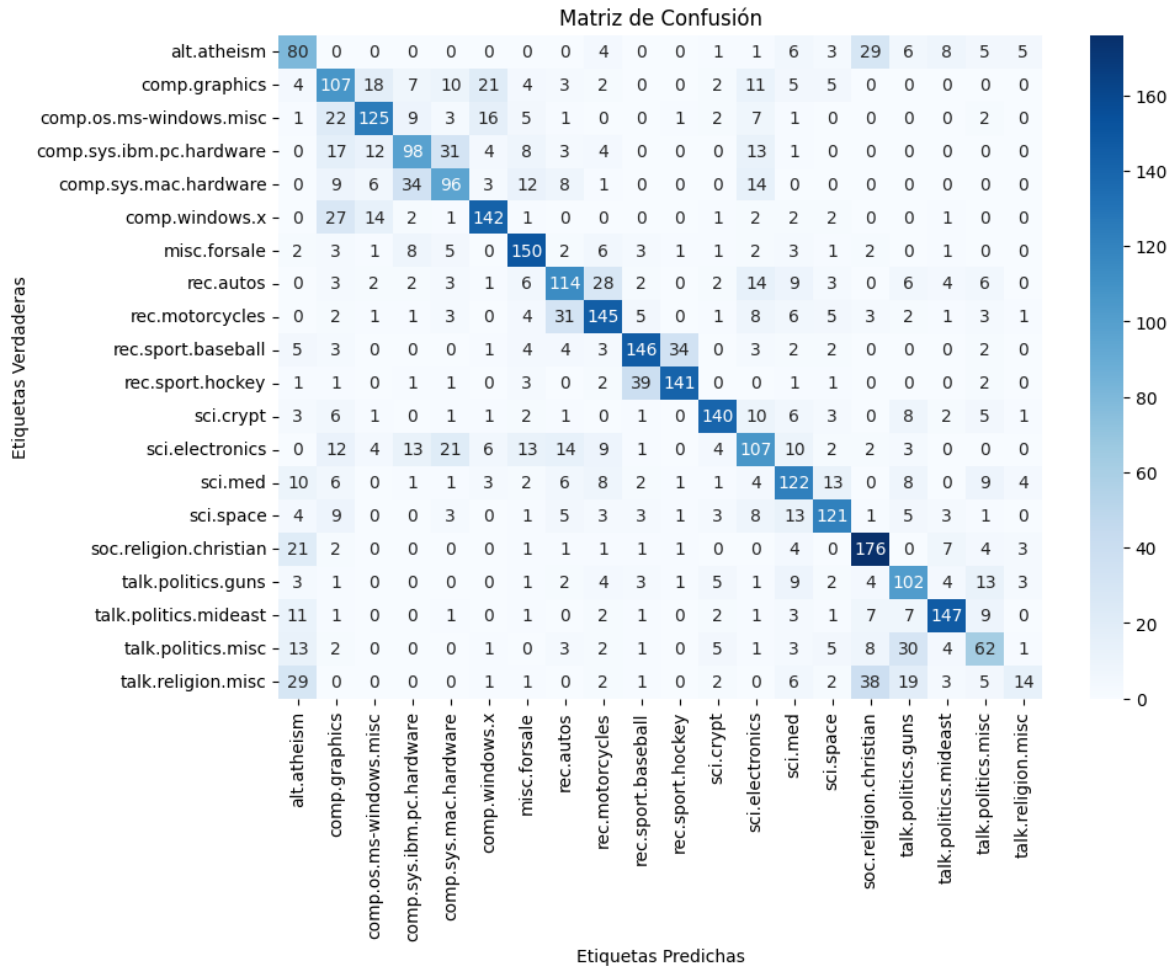
SVC

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.43	0.54	0.48	148
comp.graphics	0.46	0.54	0.50	199
comp.os.ms-windows.misc	0.68	0.64	0.66	195
comp.sys.ibm.pc.hardware	0.56	0.51	0.53	191
comp.sys.mac.hardware	0.53	0.52	0.53	183
comp.windows.x	0.71	0.73	0.72	195
misc.forsale	0.68	0.79	0.73	191
rec.autos	0.58	0.56	0.57	205
rec.motorcycles	0.64	0.65	0.65	222
rec.sport.baseball	0.70	0.70	0.70	209
rec.sport.hockey	0.78	0.73	0.75	193
sci.crypt	0.81	0.73	0.77	191
sci.electronics	0.52	0.48	0.50	221
sci.med	0.58	0.61	0.59	201
sci.space	0.71	0.66	0.68	184
soc.religion.christian	0.65	0.79	0.72	222

talk.politics.guns	0.52	0.65	0.58	158
talk.politics.mideast	0.79	0.76	0.78	194
talk.politics.misc	0.48	0.44	0.46	141
talk.religion.misc	0.44	0.11	0.18	123
accuracy			0.62	3766
macro avg	0.61	0.61	0.60	3766
weighted avg	0.62	0.62	0.62	3766

Micro-F1 Score: 0.6200



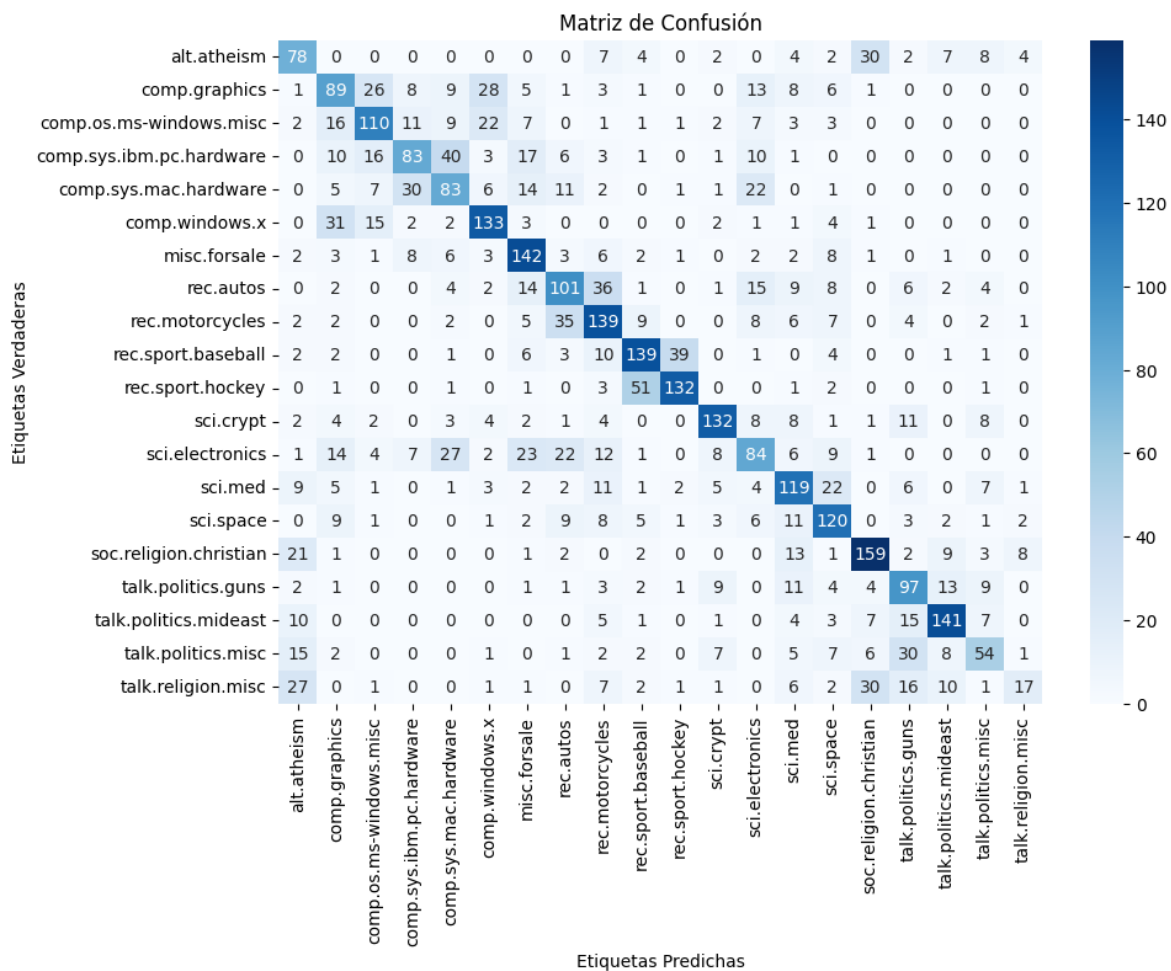
Random Forest

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.45	0.53	0.48	148
comp.graphics	0.45	0.45	0.45	199
comp.os.ms-windows.misc	0.60	0.56	0.58	195
comp.sys.ibm.pc.hardware	0.56	0.43	0.49	191
comp.sys.mac.hardware	0.44	0.45	0.45	183
comp.windows.x	0.64	0.68	0.66	195

misc.forsale	0.58	0.74	0.65	191
rec.autos	0.51	0.49	0.50	205
rec.motorcycles	0.53	0.63	0.57	222
rec.sport.baseball	0.62	0.67	0.64	209
rec.sport.hockey	0.74	0.68	0.71	193
sci.crypt	0.75	0.69	0.72	191
sci.electronics	0.46	0.38	0.42	221
sci.med	0.55	0.59	0.57	201
sci.space	0.56	0.65	0.60	184
soc.religion.christian	0.66	0.72	0.69	222
talk.politics.guns	0.51	0.61	0.55	158
talk.politics.mideast	0.73	0.73	0.73	194
talk.politics.misc	0.51	0.38	0.44	141
talk.religion.misc	0.50	0.14	0.22	123
accuracy			0.57	3766
macro avg	0.57	0.56	0.56	3766
weighted avg	0.57	0.57	0.56	3766

Micro-F1 Score: 0.5714

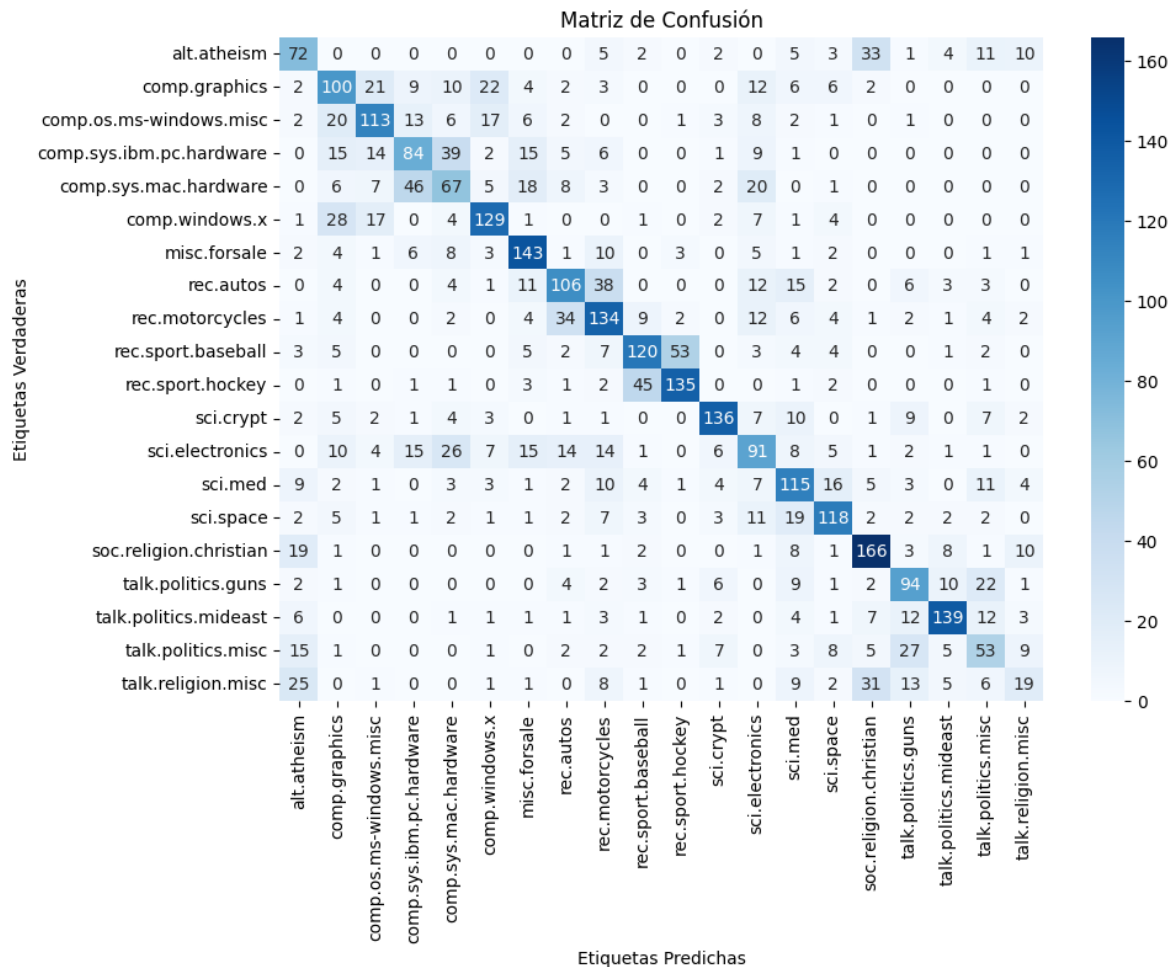


XGBOOSTS

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.44	0.49	0.46	148
comp.graphics	0.47	0.50	0.49	199
comp.os.ms-windows.misc	0.62	0.58	0.60	195
comp.sys.ibm.pc.hardware	0.48	0.44	0.46	191
comp.sys.mac.hardware	0.38	0.37	0.37	183
comp.windows.x	0.66	0.66	0.66	195
misc.forsale	0.62	0.75	0.68	191
rec.autos	0.56	0.52	0.54	205
rec.motorcycles	0.52	0.60	0.56	222
rec.sport.baseball	0.62	0.57	0.60	209
rec.sport.hockey	0.69	0.70	0.69	193
sci.crypt	0.78	0.71	0.74	191
sci.electronics	0.44	0.41	0.43	221
sci.med	0.51	0.57	0.54	201
sci.space	0.65	0.64	0.65	184
soc.religion.christian	0.65	0.75	0.69	222
talk.politics.guns	0.54	0.59	0.56	158
talk.politics.mideast	0.78	0.72	0.75	194
talk.politics.misc	0.39	0.38	0.38	141
talk.religion.misc	0.31	0.15	0.21	123
accuracy			0.57	3766
macro avg	0.56	0.56	0.55	3766
weighted avg	0.56	0.57	0.56	3766

Micro-F1 Score: 0.5666



W2C-300

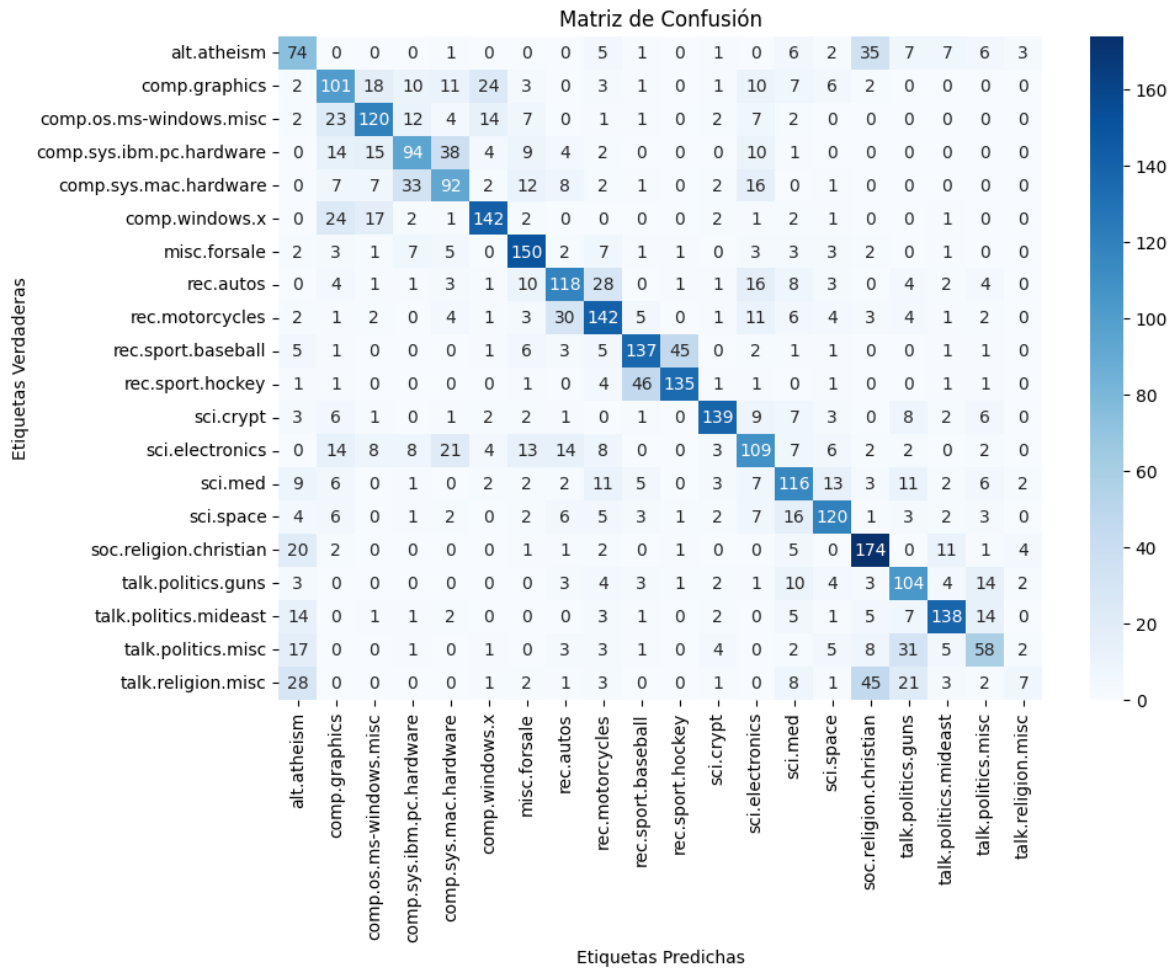
SVC

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.40	0.50	0.44	148
comp.graphics	0.47	0.51	0.49	199
comp.os.ms-windows.misc	0.63	0.62	0.62	195
comp.sys.ibm.pc.hardware	0.55	0.49	0.52	191
comp.sys.mac.hardware	0.50	0.50	0.50	183
comp.windows.x	0.71	0.73	0.72	195
misc.forsale	0.67	0.79	0.72	191
rec.autos	0.60	0.58	0.59	205
rec.motorcycles	0.60	0.64	0.62	222
rec.sport.baseball	0.66	0.66	0.66	209
rec.sport.hockey	0.73	0.70	0.71	193
sci.crypt	0.83	0.73	0.78	191
sci.electronics	0.52	0.49	0.51	221
sci.med	0.55	0.58	0.56	201
sci.space	0.69	0.65	0.67	184

soc.religion.christian	0.61	0.78	0.69	222
talk.politics.guns	0.51	0.66	0.58	158
talk.politics.mideast	0.76	0.71	0.74	194
talk.politics.misc	0.48	0.41	0.44	141
talk.religion.misc	0.35	0.06	0.10	123
accuracy			0.60	3766
macro avg	0.59	0.59	0.58	3766
weighted avg	0.60	0.60	0.60	3766

Micro-F1 Score: 0.6028

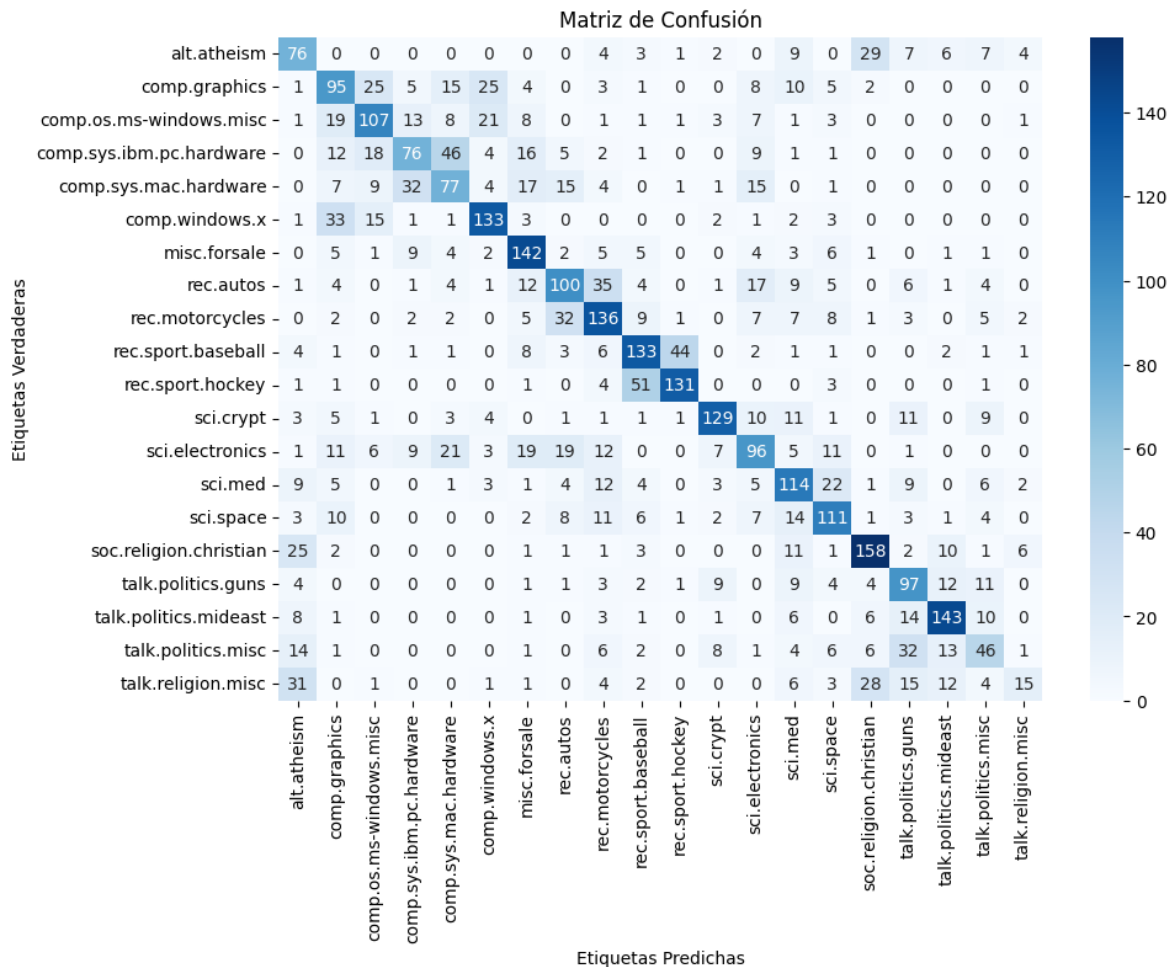


RF

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.42	0.51	0.46	148
comp.graphics	0.44	0.48	0.46	199
comp.os.ms-windows.misc	0.58	0.55	0.57	195
comp.sys.ibm.pc.hardware	0.51	0.40	0.45	191
comp.sys.mac.hardware	0.42	0.42	0.42	183
comp.windows.x	0.66	0.68	0.67	195
misc.forsale	0.58	0.74	0.65	191
rec.autos	0.52	0.49	0.51	205
rec.motorcycles	0.54	0.61	0.57	222
rec.sport.baseball	0.58	0.64	0.61	209
rec.sport.hockey	0.72	0.68	0.70	193
sci.crypt	0.77	0.68	0.72	191
sci.electronics	0.51	0.43	0.47	221
sci.med	0.51	0.57	0.54	201
sci.space	0.57	0.60	0.59	184
soc.religion.christian	0.67	0.71	0.69	222
talk.politics.guns	0.48	0.61	0.54	158
talk.politics.mideast	0.71	0.74	0.72	194
talk.politics.misc	0.42	0.33	0.37	141
talk.religion.misc	0.47	0.12	0.19	123
accuracy			0.56	3766
macro avg	0.55	0.55	0.54	3766
weighted avg	0.56	0.56	0.56	3766

Micro-F1 Score: 0.5616



glove-wiki-gigaword-100

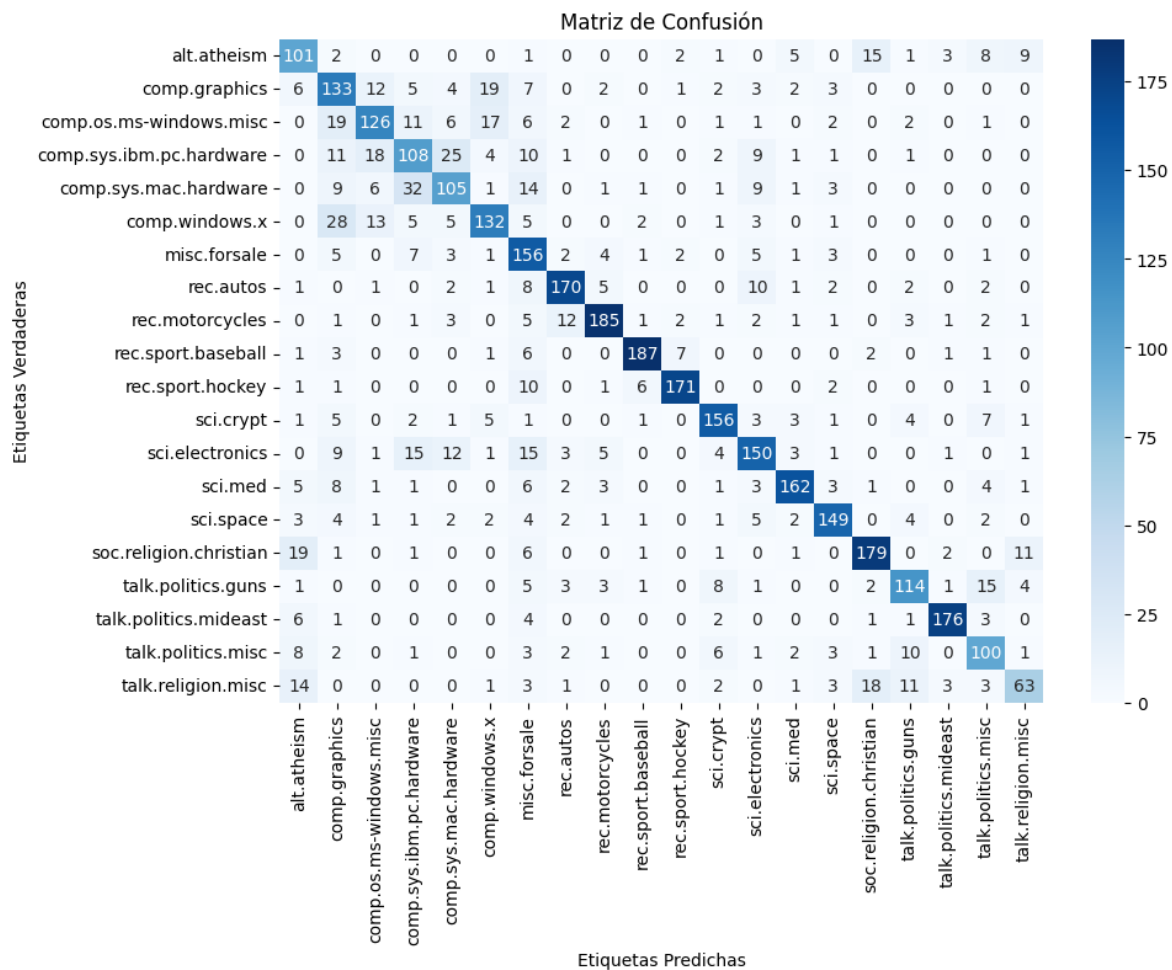
SVC

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.60	0.68	0.64	148
comp.graphics	0.55	0.67	0.60	199
comp.os.ms-windows.misc	0.70	0.65	0.67	195
comp.sys.ibm.pc.hardware	0.57	0.57	0.57	191
comp.sys.mac.hardware	0.62	0.57	0.60	183
comp.windows.x	0.71	0.68	0.69	195
misc.forsale	0.57	0.82	0.67	191
rec.autos	0.85	0.83	0.84	205
rec.motorcycles	0.88	0.83	0.85	222
rec.sport.baseball	0.92	0.89	0.91	209
rec.sport.hockey	0.92	0.89	0.90	193
sci.crypt	0.82	0.82	0.82	191
sci.electronics	0.73	0.68	0.70	221
sci.med	0.87	0.81	0.84	201

sci.space	0.84	0.81	0.82	184
soc.religion.christian	0.82	0.81	0.81	222
talk.politics.guns	0.75	0.72	0.73	158
talk.politics.mideast	0.94	0.91	0.92	194
talk.politics.misc	0.67	0.71	0.69	141
talk.religion.misc	0.68	0.51	0.59	123
accuracy			0.75	3766
macro avg	0.75	0.74	0.74	3766
weighted avg	0.76	0.75	0.75	3766

Micro-F1 Score: 0.7496



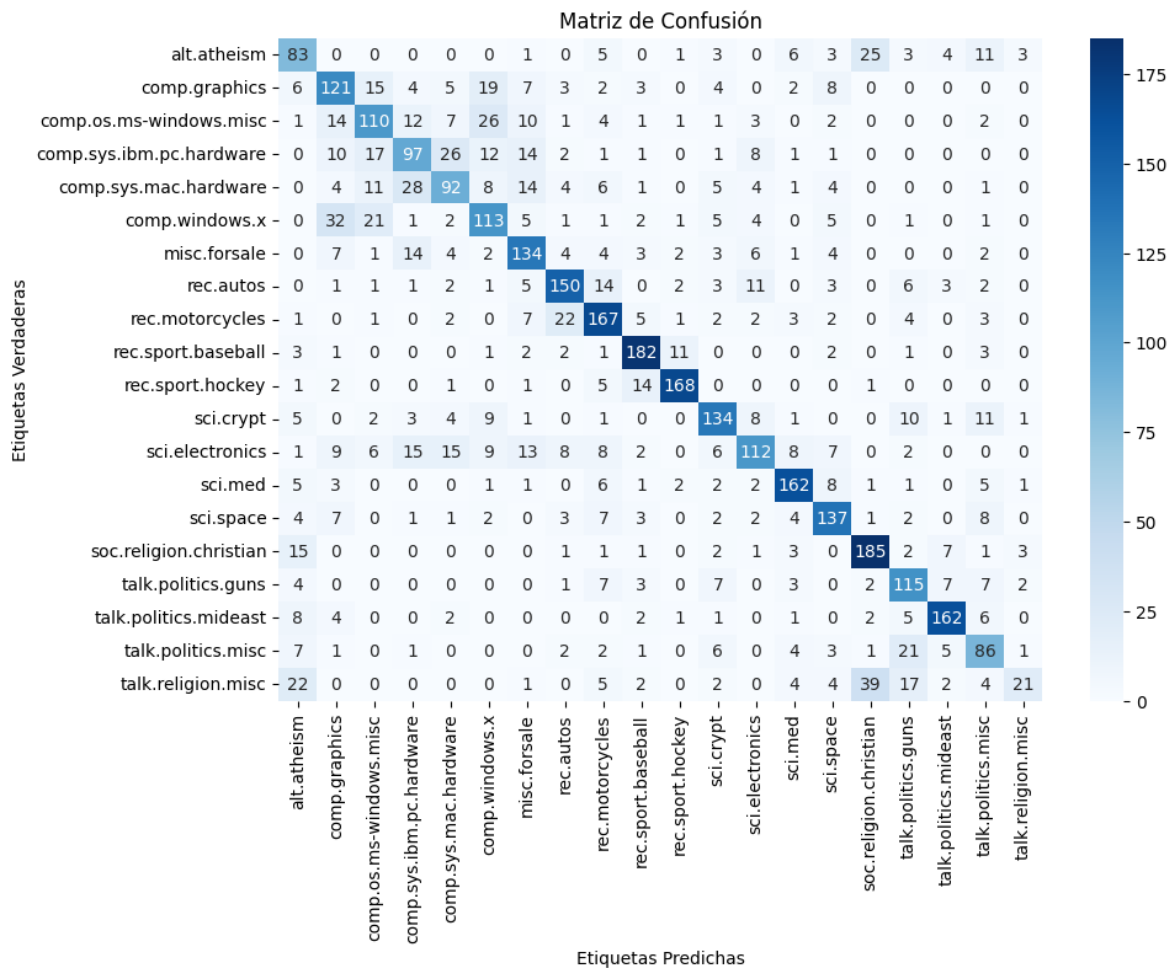
RF

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.50	0.56	0.53	148
comp.graphics	0.56	0.61	0.58	199
comp.os.ms-windows.misc	0.59	0.56	0.58	195
comp.sys.ibm.pc.hardware	0.55	0.51	0.53	191

comp.sys.mac.hardware	0.56	0.50	0.53	183
comp.windows.x	0.56	0.58	0.57	195
misc.forsale	0.62	0.70	0.66	191
rec.autos	0.74	0.73	0.73	205
rec.motorcycles	0.68	0.75	0.71	222
rec.sport.baseball	0.80	0.87	0.83	209
rec.sport.hockey	0.88	0.87	0.88	193
sci.crypt	0.71	0.70	0.71	191
sci.electronics	0.69	0.51	0.58	221
sci.med	0.79	0.81	0.80	201
sci.space	0.71	0.74	0.73	184
soc.religion.christian	0.72	0.83	0.77	222
talk.politics.guns	0.61	0.73	0.66	158
talk.politics.mideast	0.85	0.84	0.84	194
talk.politics.misc	0.56	0.61	0.59	141
talk.religion.misc	0.66	0.17	0.27	123
accuracy			0.67	3766
macro avg	0.67	0.66	0.65	3766
weighted avg	0.67	0.67	0.67	3766

Micro-F1 Score: 0.6721

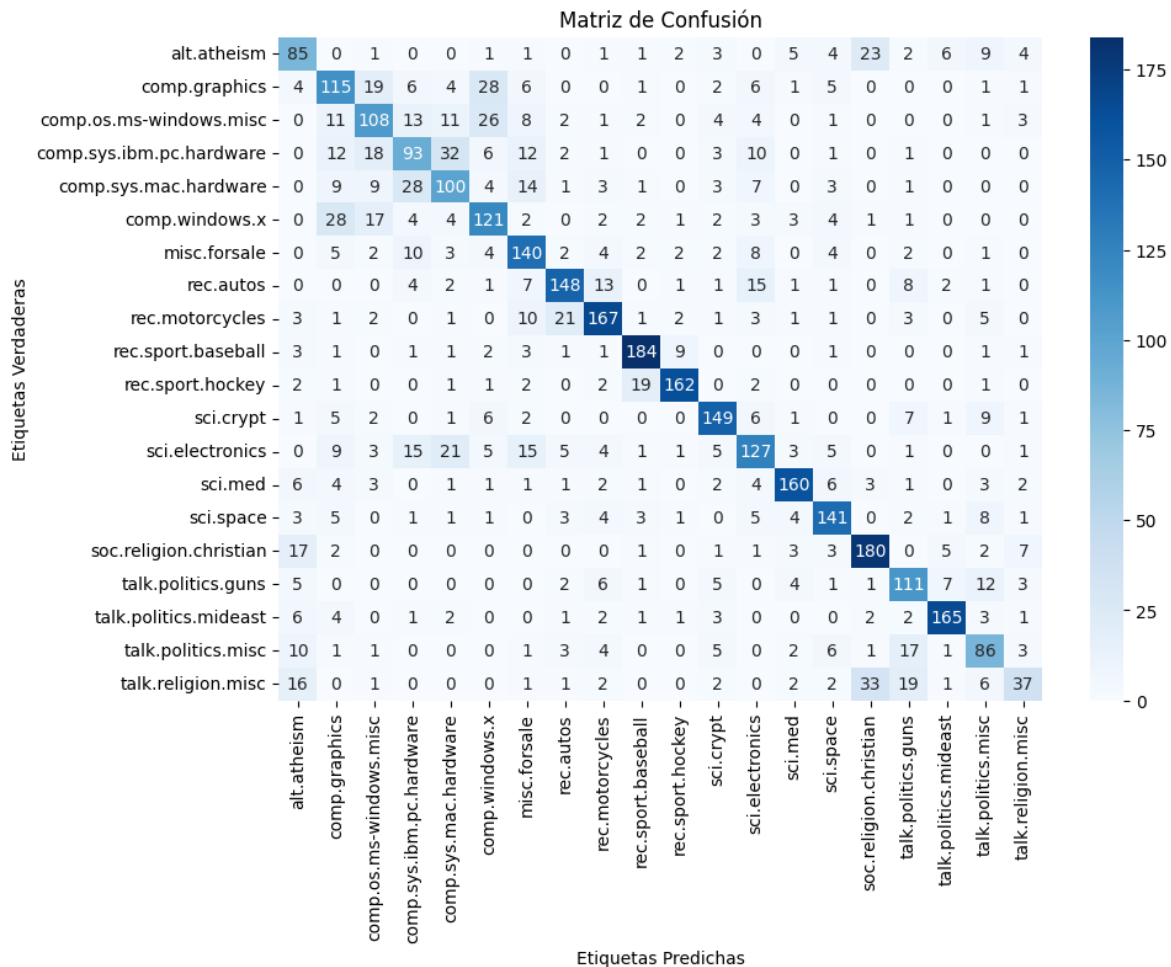


XBOOT

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.53	0.57	0.55	148
comp.graphics	0.54	0.58	0.56	199
comp.os.ms-windows.misc	0.58	0.55	0.57	195
comp.sys.ibm.pc.hardware	0.53	0.49	0.51	191
comp.sys.mac.hardware	0.54	0.55	0.54	183
comp.windows.x	0.58	0.62	0.60	195
misc.forsale	0.62	0.73	0.67	191
rec.autos	0.77	0.72	0.74	205
rec.motorcycles	0.76	0.75	0.76	222
rec.sport.baseball	0.83	0.88	0.86	209
rec.sport.hockey	0.89	0.84	0.86	193
sci.crypt	0.77	0.78	0.78	191
sci.electronics	0.63	0.57	0.60	221
sci.med	0.84	0.80	0.82	201
sci.space	0.75	0.77	0.76	184
soc.religion.christian	0.74	0.81	0.77	222
talk.politics.guns	0.62	0.70	0.66	158
talk.politics.mideast	0.87	0.85	0.86	194
talk.politics.misc	0.58	0.61	0.59	141
talk.religion.misc	0.57	0.30	0.39	123
accuracy			0.68	3766
macro avg	0.68	0.67	0.67	3766
weighted avg	0.69	0.68	0.68	3766

Micro-F1 Score: 0.6848



glove-wiki-gigaword-300

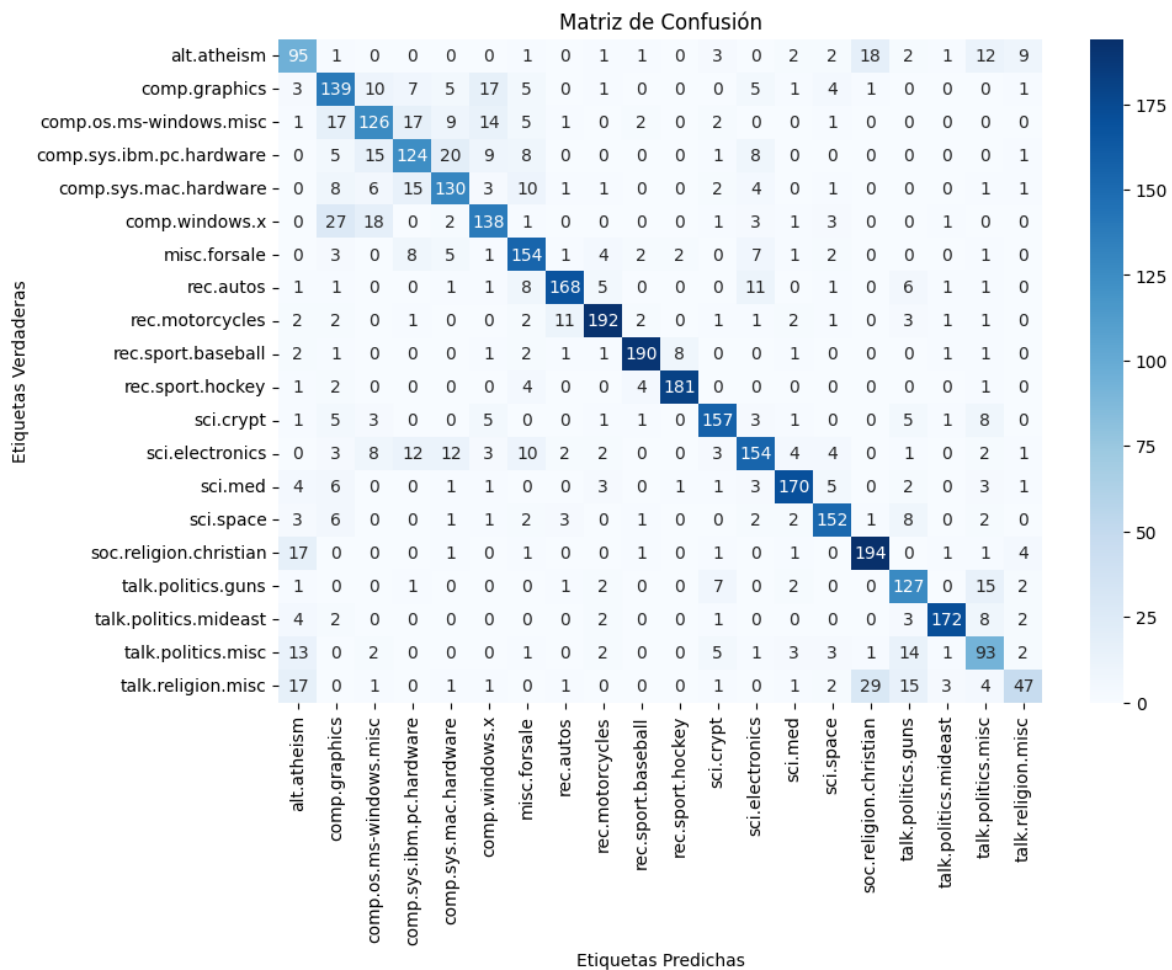
SVC

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.58	0.64	0.61	148
comp.graphics	0.61	0.70	0.65	199
comp.os.ms-windows.misc	0.67	0.65	0.66	195
comp.sys.ibm.pc.hardware	0.67	0.65	0.66	191
comp.sys.mac.hardware	0.69	0.71	0.70	183
comp.windows.x	0.71	0.71	0.71	195
misc.forsale	0.72	0.81	0.76	191
rec.autos	0.88	0.82	0.85	205
rec.motorcycles	0.88	0.86	0.87	222
rec.sport.baseball	0.93	0.91	0.92	209
rec.sport.hockey	0.94	0.94	0.94	193
sci.crypt	0.84	0.82	0.83	191
sci.electronics	0.76	0.70	0.73	221
sci.med	0.89	0.85	0.87	201

sci.space	0.84	0.83	0.83	184
soc.religion.christian	0.80	0.87	0.83	222
talk.politics.guns	0.68	0.80	0.74	158
talk.politics.mideast	0.94	0.89	0.91	194
talk.politics.misc	0.60	0.66	0.63	141
talk.religion.misc	0.66	0.38	0.48	123
accuracy			0.77	3766
macro avg	0.76	0.76	0.76	3766
weighted avg	0.77	0.77	0.77	3766

Micro-F1 Score: 0.7708



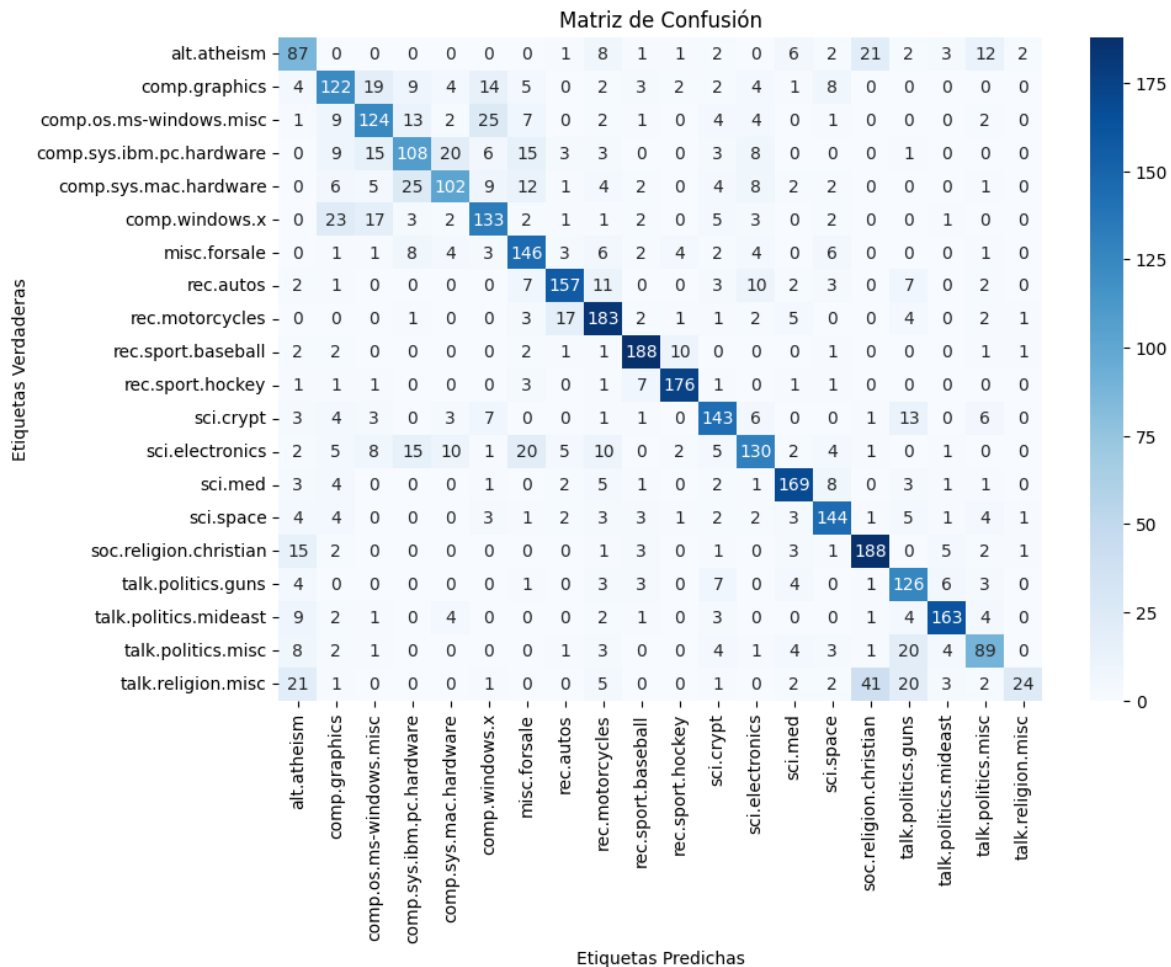
RF

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.52	0.59	0.55	148
comp.graphics	0.62	0.61	0.61	199

comp.os.ms-windows.misc	0.64	0.64	0.64	195
comp.sys.ibm.pc.hardware	0.59	0.57	0.58	191
comp.sys.mac.hardware	0.68	0.56	0.61	183
comp.windows.x	0.66	0.68	0.67	195
misc.forsale	0.65	0.76	0.70	191
rec.autos	0.81	0.77	0.79	205
rec.motorcycles	0.72	0.82	0.77	222
rec.sport.baseball	0.85	0.90	0.88	209
rec.sport.hockey	0.89	0.91	0.90	193
sci.crypt	0.73	0.75	0.74	191
sci.electronics	0.71	0.59	0.64	221
sci.med	0.83	0.84	0.83	201
sci.space	0.77	0.78	0.77	184
soc.religion.christian	0.73	0.85	0.79	222
talk.politics.guns	0.61	0.80	0.69	158
talk.politics.mideast	0.87	0.84	0.85	194
talk.politics.misc	0.67	0.63	0.65	141
talk.religion.misc	0.80	0.20	0.31	123
accuracy			0.72	3766
macro avg	0.72	0.70	0.70	3766
weighted avg	0.72	0.72	0.71	3766

Micro-F1 Score: 0.7175



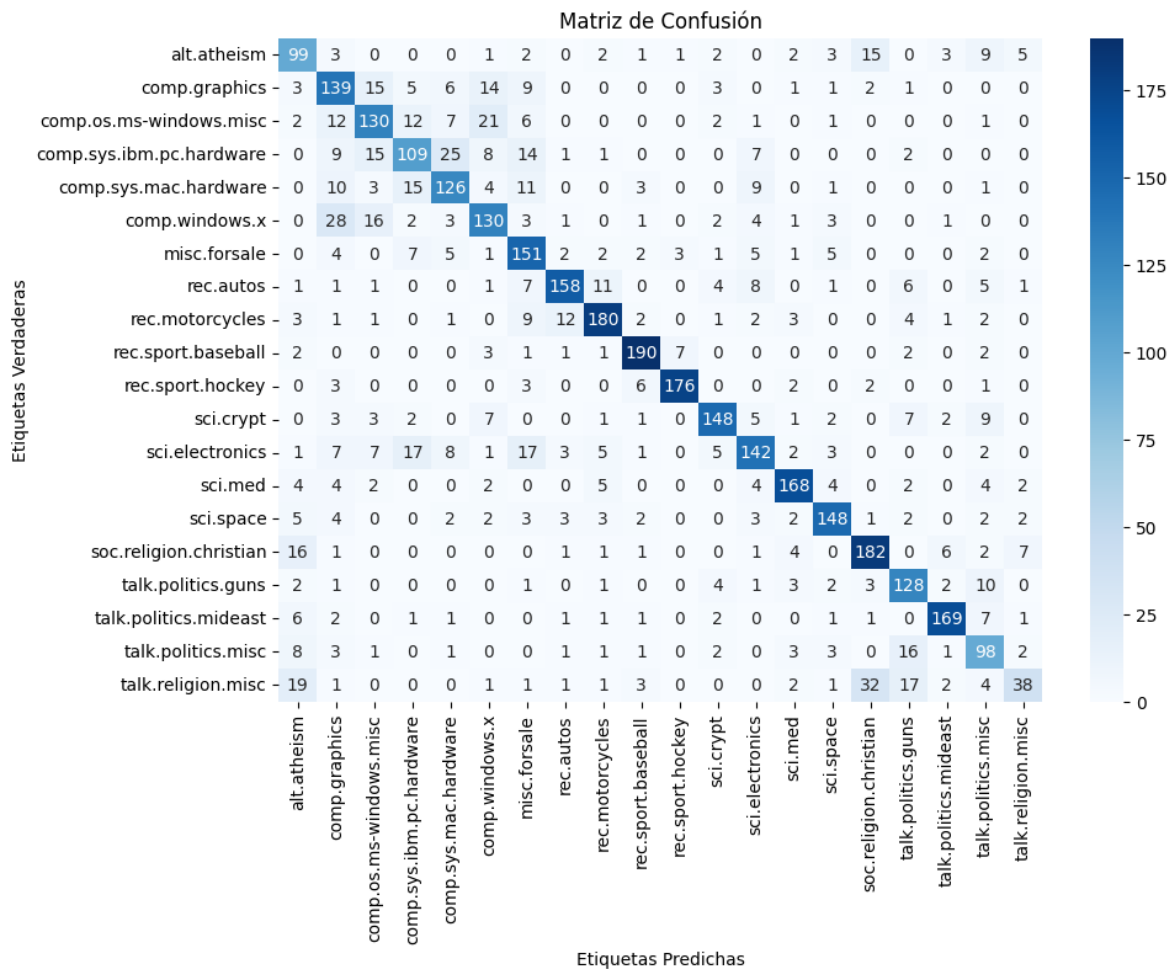
XBOOT

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.58	0.67	0.62	148
comp.graphics	0.59	0.70	0.64	199
comp.os.ms-windows.misc	0.67	0.67	0.67	195
comp.sys.ibm.pc.hardware	0.64	0.57	0.60	191
comp.sys.mac.hardware	0.68	0.69	0.68	183
comp.windows.x	0.66	0.67	0.66	195
misc.forsale	0.63	0.79	0.70	191
rec.autos	0.85	0.77	0.81	205
rec.motorcycles	0.83	0.81	0.82	222
rec.sport.baseball	0.88	0.91	0.90	209
rec.sport.hockey	0.94	0.91	0.93	193
sci.crypt	0.84	0.77	0.81	191
sci.electronics	0.74	0.64	0.69	221
sci.med	0.86	0.84	0.85	201
sci.space	0.83	0.80	0.82	184
soc.religion.christian	0.76	0.82	0.79	222
talk.politics.guns	0.68	0.81	0.74	158

talk.politics.mideast	0.90	0.87	0.89	194
talk.politics.misc	0.61	0.70	0.65	141
talk.religion.misc	0.66	0.31	0.42	123
accuracy			0.75	3766
macro avg	0.74	0.74	0.73	3766
weighted avg	0.75	0.75	0.74	3766

Micro-F1 Score: 0.7459



Glove – Twitter 200

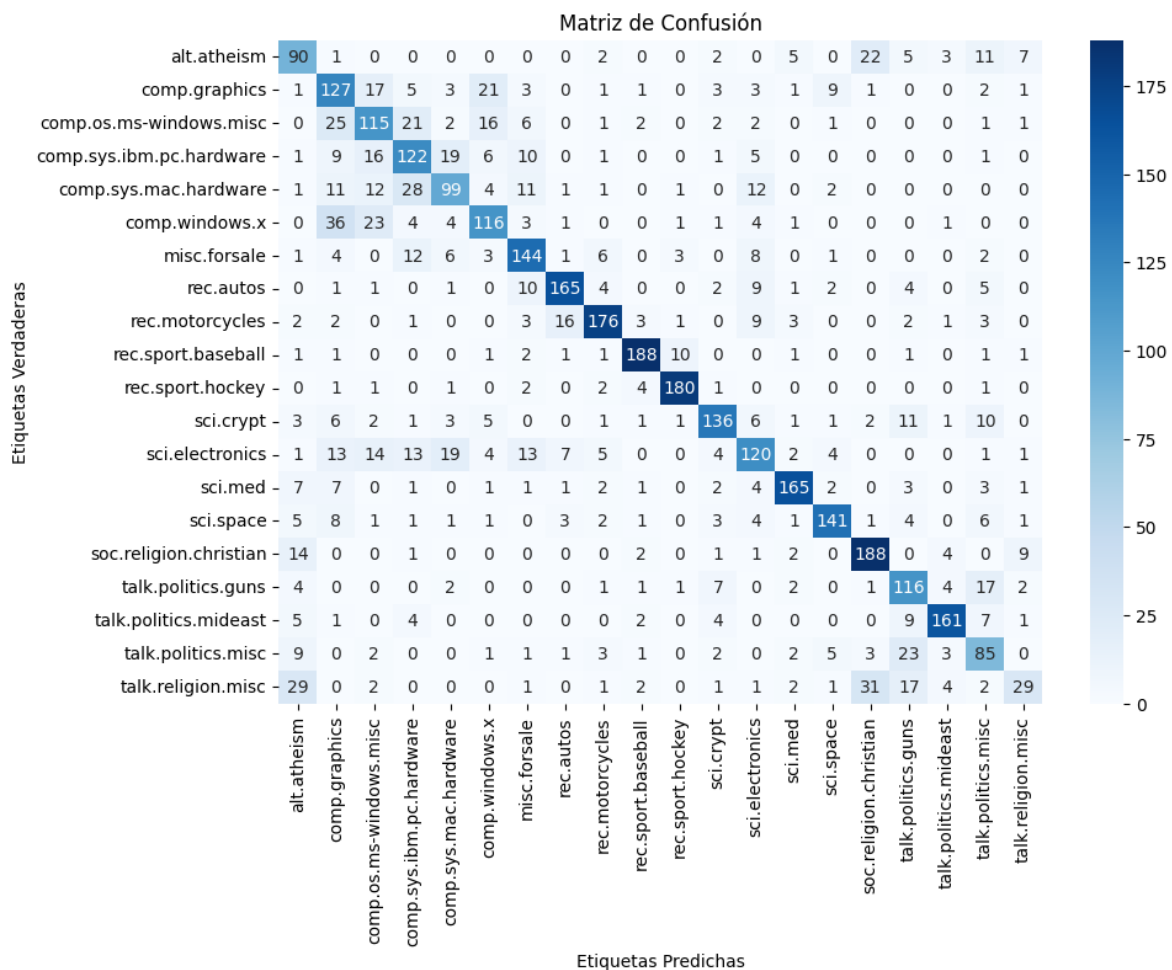
SVC

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.52	0.61	0.56	148
comp.graphics	0.50	0.64	0.56	199
comp.os.ms-windows.misc	0.56	0.59	0.57	195
comp.sys.ibm.pc.hardware	0.57	0.64	0.60	191
comp.sys.mac.hardware	0.62	0.54	0.58	183

comp.windows.x	0.65	0.59	0.62	195
misc.forsale	0.69	0.75	0.72	191
rec.autos	0.84	0.80	0.82	205
rec.motorcycles	0.84	0.79	0.81	222
rec.sport.baseball	0.90	0.90	0.90	209
rec.sport.hockey	0.91	0.93	0.92	193
sci.crypt	0.79	0.71	0.75	191
sci.electronics	0.64	0.54	0.59	221
sci.med	0.87	0.82	0.85	201
sci.space	0.83	0.77	0.80	184
soc.religion.christian	0.76	0.85	0.80	222
talk.politics.guns	0.59	0.73	0.66	158
talk.politics.mideast	0.88	0.83	0.86	194
talk.politics.misc	0.54	0.60	0.57	141
talk.religion.misc	0.54	0.24	0.33	123
accuracy			0.71	3766
macro avg	0.70	0.69	0.69	3766
weighted avg	0.71	0.71	0.71	3766

Micro-F1 Score: 0.7071

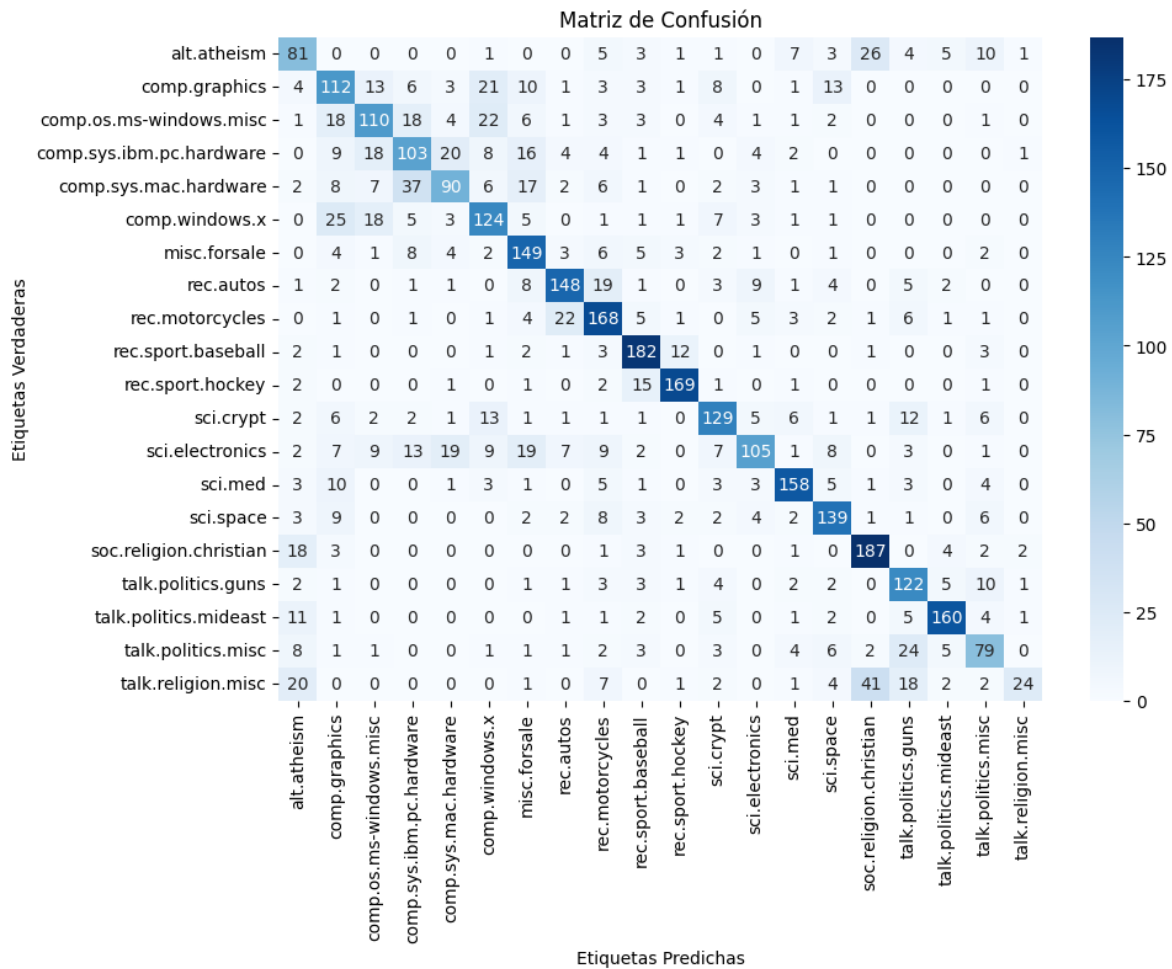


RF

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.50	0.55	0.52	148
comp.graphics	0.51	0.56	0.54	199
comp.os.ms-windows.misc	0.61	0.56	0.59	195
comp.sys.ibm.pc.hardware	0.53	0.54	0.54	191
comp.sys.mac.hardware	0.61	0.49	0.55	183
comp.windows.x	0.58	0.64	0.61	195
misc.forsale	0.61	0.78	0.69	191
rec.autos	0.76	0.72	0.74	205
rec.motorcycles	0.65	0.76	0.70	222
rec.sport.baseball	0.76	0.87	0.81	209
rec.sport.hockey	0.87	0.88	0.87	193
sci.crypt	0.70	0.68	0.69	191
sci.electronics	0.73	0.48	0.58	221
sci.med	0.81	0.79	0.80	201
sci.space	0.72	0.76	0.74	184
soc.religion.christian	0.72	0.84	0.77	222
talk.politics.guns	0.60	0.77	0.68	158
talk.politics.mideast	0.86	0.82	0.84	194
talk.politics.misc	0.60	0.56	0.58	141
talk.religion.misc	0.80	0.20	0.31	123
accuracy			0.67	3766
macro avg	0.68	0.66	0.66	3766
weighted avg	0.68	0.67	0.67	3766

Micro-F1 Score: 0.6742



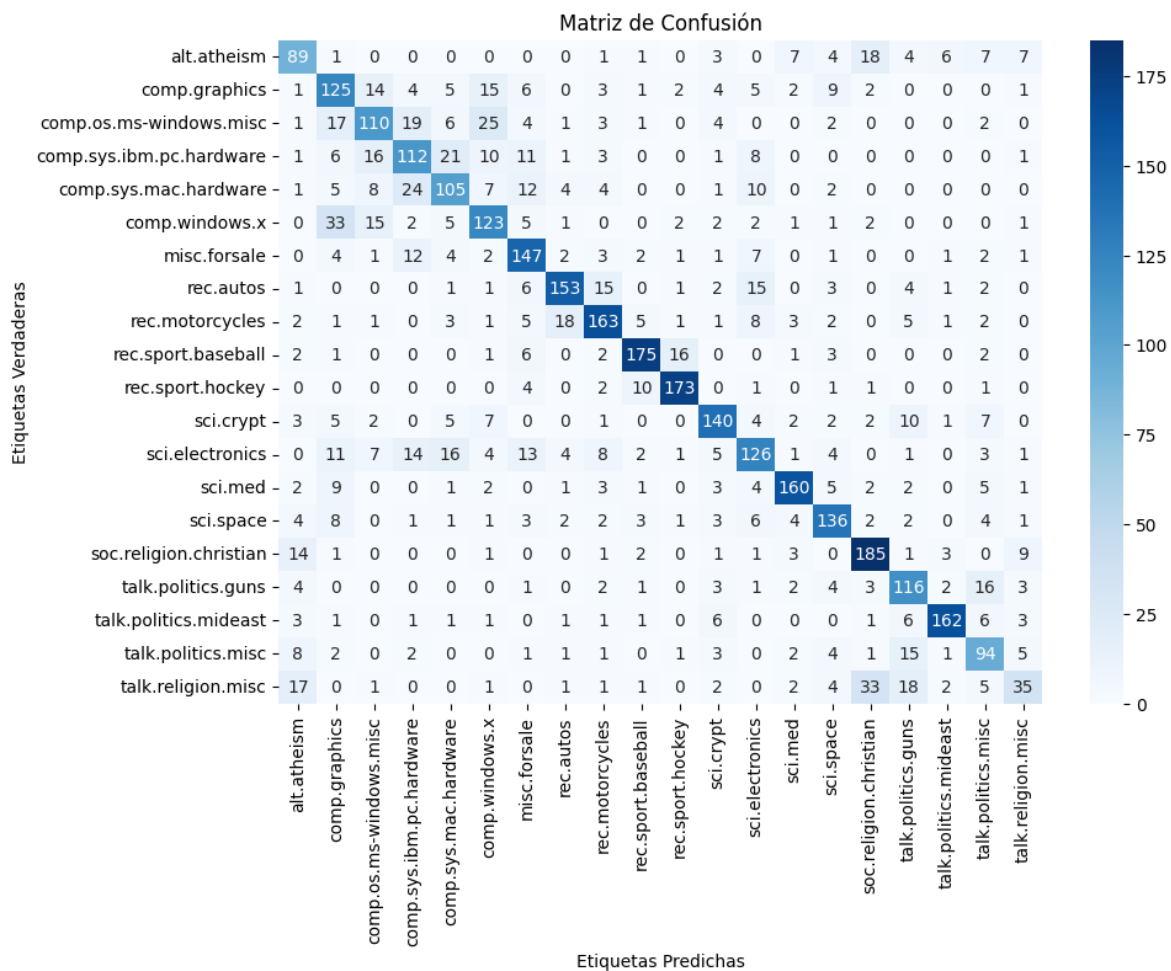
XBOOT

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.58	0.60	0.59	148
comp.graphics	0.54	0.63	0.58	199
comp.os.ms-windows.misc	0.63	0.56	0.59	195
comp.sys.ibm.pc.hardware	0.59	0.59	0.59	191
comp.sys.mac.hardware	0.60	0.57	0.59	183
comp.windows.x	0.61	0.63	0.62	195
misc.forsale	0.66	0.77	0.71	191
rec.autos	0.81	0.75	0.77	205
rec.motorcycles	0.74	0.73	0.74	222
rec.sport.baseball	0.85	0.84	0.84	209
rec.sport.hockey	0.87	0.90	0.88	193
sci.crypt	0.76	0.73	0.74	191
sci.electronics	0.64	0.57	0.60	221
sci.med	0.84	0.80	0.82	201
sci.space	0.73	0.74	0.73	184
soc.religion.christian	0.73	0.83	0.78	222
talk.politics.guns	0.63	0.73	0.68	158

talk.politics.mideast	0.90	0.84	0.87	194
talk.politics.misc	0.59	0.67	0.63	141
talk.religion.misc	0.51	0.28	0.36	123
accuracy			0.70	3766
macro avg	0.69	0.69	0.69	3766
weighted avg	0.70	0.70	0.70	3766

Micro-F1 Score: 0.6981



Fasttext

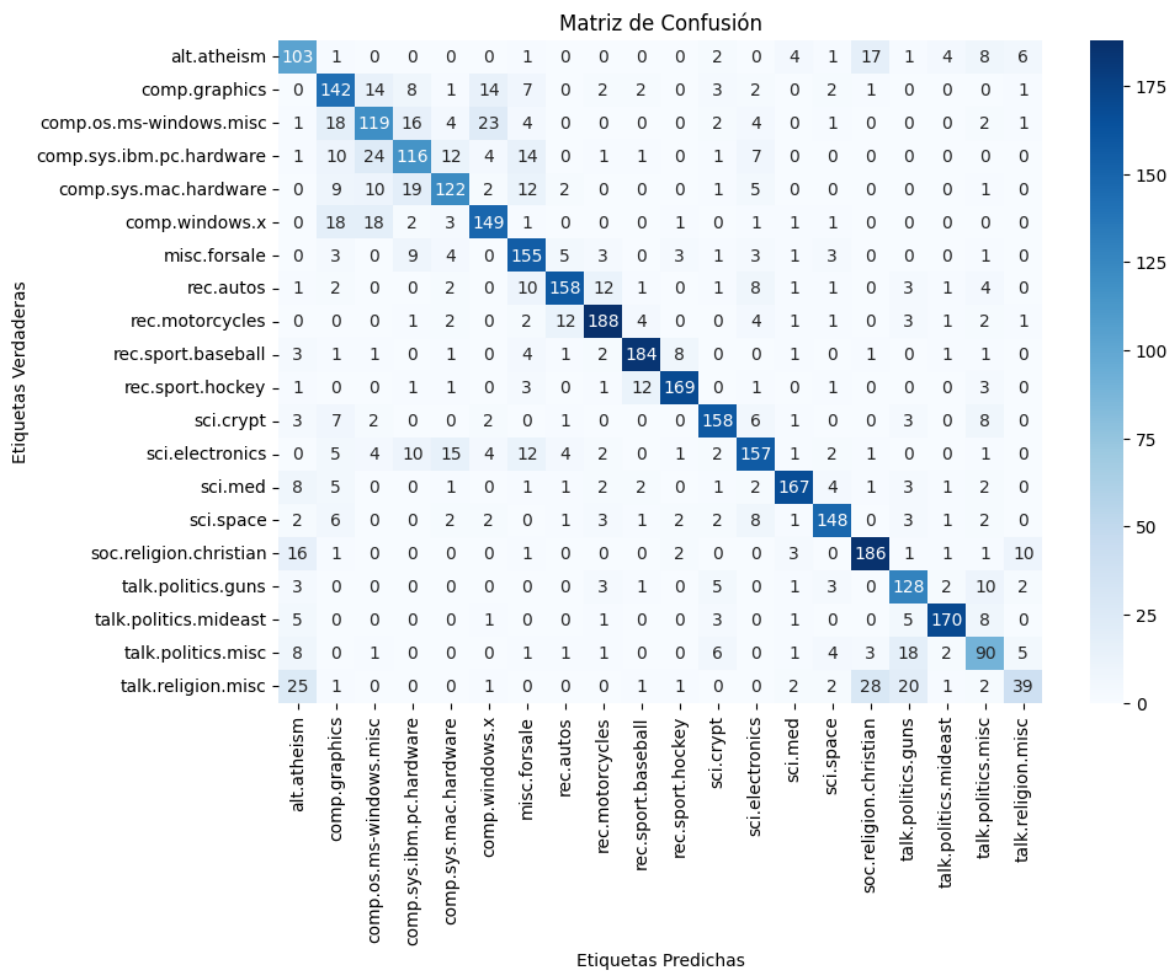
SVC

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.57	0.70	0.63	148
comp.graphics	0.62	0.71	0.66	199
comp.os.ms-windows.misc	0.62	0.61	0.61	195
comp.sys.ibm.pc.hardware	0.64	0.61	0.62	191
comp.sys.mac.hardware	0.72	0.67	0.69	183

comp.windows.x	0.74	0.76	0.75	195
misc.forsale	0.68	0.81	0.74	191
rec.autos	0.85	0.77	0.81	205
rec.motorcycles	0.85	0.85	0.85	222
rec.sport.baseball	0.88	0.88	0.88	209
rec.sport.hockey	0.90	0.88	0.89	193
sci.crypt	0.84	0.83	0.83	191
sci.electronics	0.75	0.71	0.73	221
sci.med	0.89	0.83	0.86	201
sci.space	0.85	0.80	0.83	184
soc.religion.christian	0.78	0.84	0.81	222
talk.politics.guns	0.68	0.81	0.74	158
talk.politics.mideast	0.92	0.88	0.90	194
talk.politics.misc	0.62	0.64	0.63	141
talk.religion.misc	0.60	0.32	0.41	123
accuracy			0.76	3766
macro avg	0.75	0.74	0.74	3766
weighted avg	0.76	0.76	0.76	3766

Micro-F1 Score: 0.7562

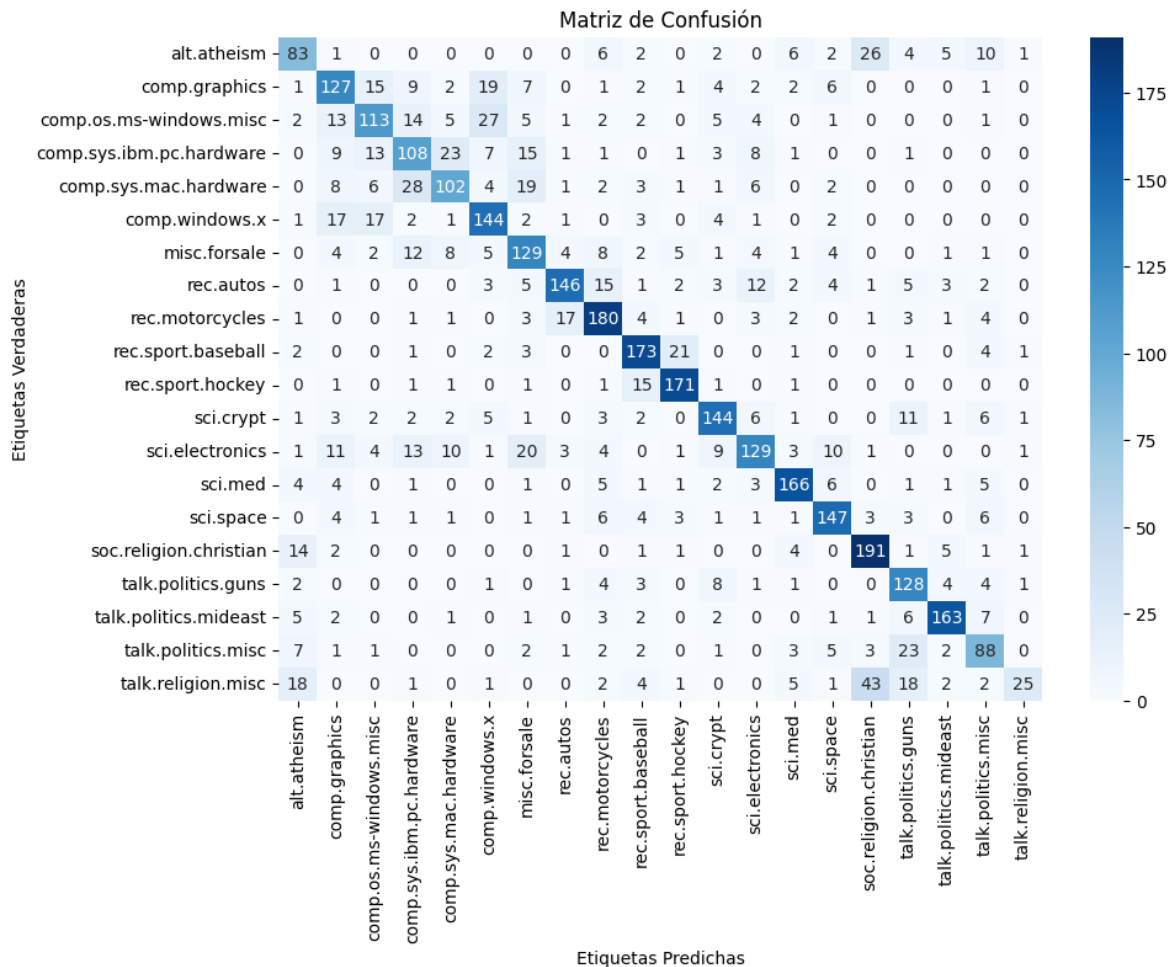


RF

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.58	0.56	0.57	148
comp.graphics	0.61	0.64	0.62	199
comp.os.ms-windows.misc	0.65	0.58	0.61	195
comp.sys.ibm.pc.hardware	0.56	0.57	0.56	191
comp.sys.mac.hardware	0.65	0.56	0.60	183
comp.windows.x	0.66	0.74	0.70	195
misc.forsale	0.60	0.68	0.64	191
rec.autos	0.82	0.71	0.76	205
rec.motorcycles	0.73	0.81	0.77	222
rec.sport.baseball	0.77	0.83	0.80	209
rec.sport.hockey	0.81	0.89	0.85	193
sci.crypt	0.75	0.75	0.75	191
sci.electronics	0.72	0.58	0.64	221
sci.med	0.83	0.83	0.83	201
sci.space	0.77	0.80	0.78	184
soc.religion.christian	0.71	0.86	0.78	222
talk.politics.guns	0.62	0.81	0.71	158
talk.politics.mideast	0.87	0.84	0.85	194
talk.politics.misc	0.62	0.62	0.62	141
talk.religion.misc	0.81	0.20	0.32	123
accuracy			0.71	3766
macro avg	0.71	0.69	0.69	3766
weighted avg	0.71	0.71	0.70	3766

Micro-F1 Score: 0.7055



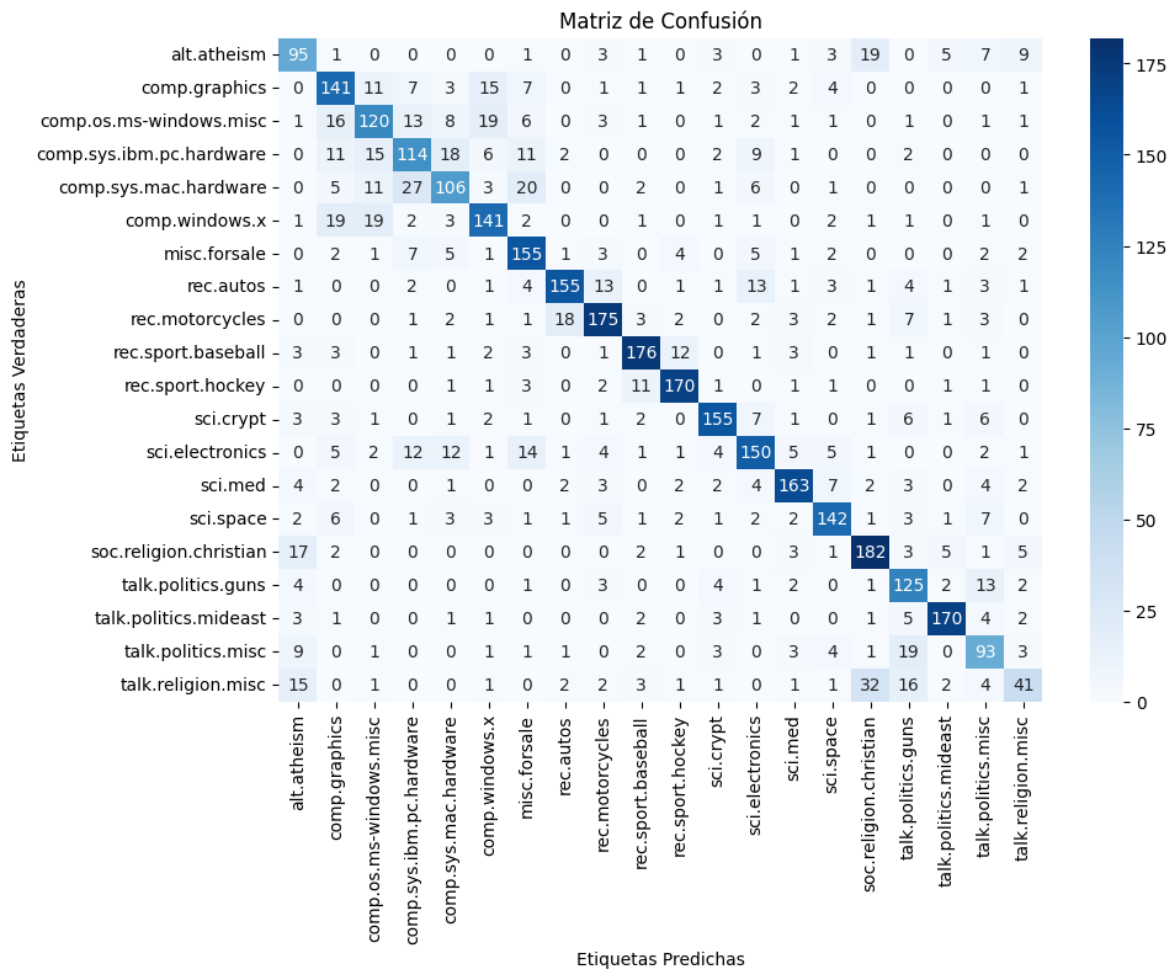
XBoost

Métricas en el conjunto de prueba:

	precision	recall	f1-score	support
alt.atheism	0.60	0.64	0.62	148
comp.graphics	0.65	0.71	0.68	199
comp.os.ms-windows.misc	0.66	0.62	0.64	195
comp.sys.ibm.pc.hardware	0.61	0.60	0.60	191
comp.sys.mac.hardware	0.64	0.58	0.61	183
comp.windows.x	0.71	0.72	0.72	195
misc.forsale	0.67	0.81	0.73	191
rec.autos	0.85	0.76	0.80	205
rec.motorcycles	0.80	0.79	0.79	222
rec.sport.baseball	0.84	0.84	0.84	209
rec.sport.hockey	0.86	0.88	0.87	193
sci.crypt	0.84	0.81	0.82	191
sci.electronics	0.72	0.68	0.70	221
sci.med	0.84	0.81	0.83	201
sci.space	0.79	0.77	0.78	184
soc.religion.christian	0.74	0.82	0.78	222
talk.politics.guns	0.64	0.79	0.71	158

talk.politics.mideast	0.90	0.88	0.89	194
talk.politics.misc	0.61	0.66	0.63	141
talk.religion.misc	0.58	0.33	0.42	123
accuracy			0.74	3766
macro avg	0.73	0.72	0.72	3766
weighted avg	0.74	0.74	0.73	3766

Micro-F1 Score: 0.7353

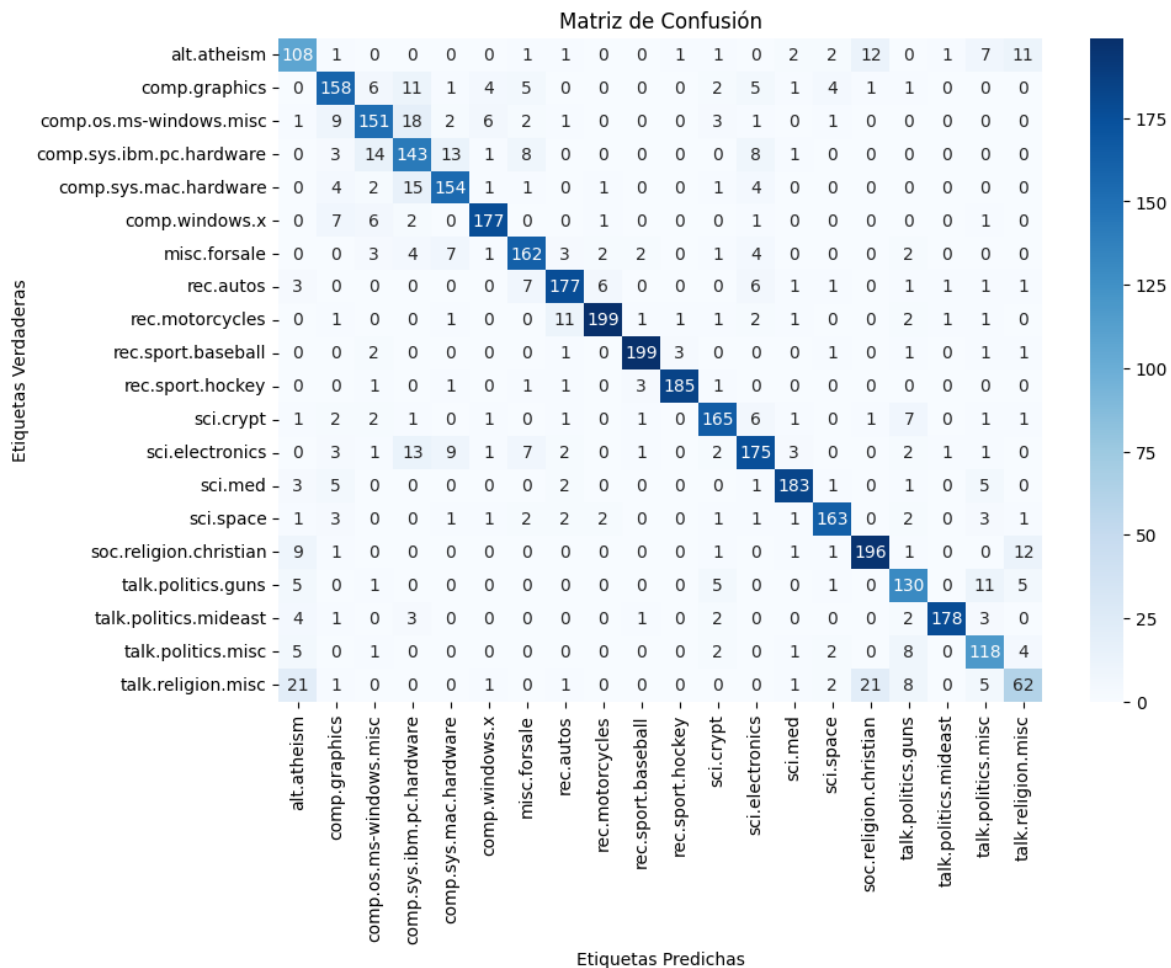


BERT

	precision	recall	f1-score	support
alt.atheism	0.67	0.73	0.70	148
comp.graphics	0.79	0.79	0.79	199
comp.os.ms-windows.misc	0.79	0.77	0.78	195
comp.sys.ibm.pc.hardware	0.68	0.75	0.71	191
comp.sys.mac.hardware	0.81	0.84	0.83	183
comp.windows.x	0.91	0.91	0.91	195
misc.forsale	0.83	0.85	0.84	191
rec.autos	0.87	0.86	0.87	205

rec.motorcycles	0.94	0.90	0.92	222
rec.sport.baseball	0.96	0.95	0.95	209
rec.sport.hockey	0.97	0.96	0.97	193
sci.crypt	0.88	0.86	0.87	191
sci.electronics	0.82	0.79	0.80	221
sci.med	0.93	0.91	0.92	201
sci.space	0.91	0.89	0.90	184
soc.religion.christian	0.85	0.88	0.87	222
talk.politics.guns	0.77	0.82	0.80	158
talk.politics.mideast	0.98	0.92	0.95	194
talk.politics.misc	0.75	0.84	0.79	141
talk.religion.misc	0.63	0.50	0.56	123
accuracy			0.85	3766
macro avg	0.84	0.84	0.84	3766
weighted avg	0.85	0.85	0.85	3766

Micro-F1 Score: 0.8452



Distilbert

	precision	recall	f1-score	support
alt.atheism	0.72	0.73	0.73	148
comp.graphics	0.77	0.82	0.79	199
comp.os.ms-windows.misc	0.81	0.76	0.78	195
comp.sys.ibm.pc.hardware	0.75	0.75	0.75	191
comp.sys.mac.hardware	0.83	0.90	0.86	183
comp.windows.x	0.88	0.90	0.89	195
misc.forsale	0.75	0.84	0.79	191
rec.autos	0.88	0.85	0.87	205
rec.motorcycles	0.93	0.89	0.91	222
rec.sport.baseball	0.97	0.94	0.95	209
rec.sport.hockey	0.95	0.97	0.96	193
sci.crypt	0.91	0.85	0.88	191
sci.electronics	0.79	0.76	0.78	221
sci.med	0.93	0.92	0.92	201
sci.space	0.94	0.87	0.90	184
soc.religion.christian	0.83	0.90	0.87	222
talk.politics.guns	0.78	0.80	0.79	158
talk.politics.mideast	0.97	0.91	0.94	194
talk.politics.misc	0.72	0.84	0.78	141
talk.religion.misc	0.56	0.42	0.48	123
accuracy			0.84	3766
macro avg	0.83	0.83	0.83	3766
weighted avg	0.84	0.84	0.84	3766

Micro-F1 Score: 0.8420

