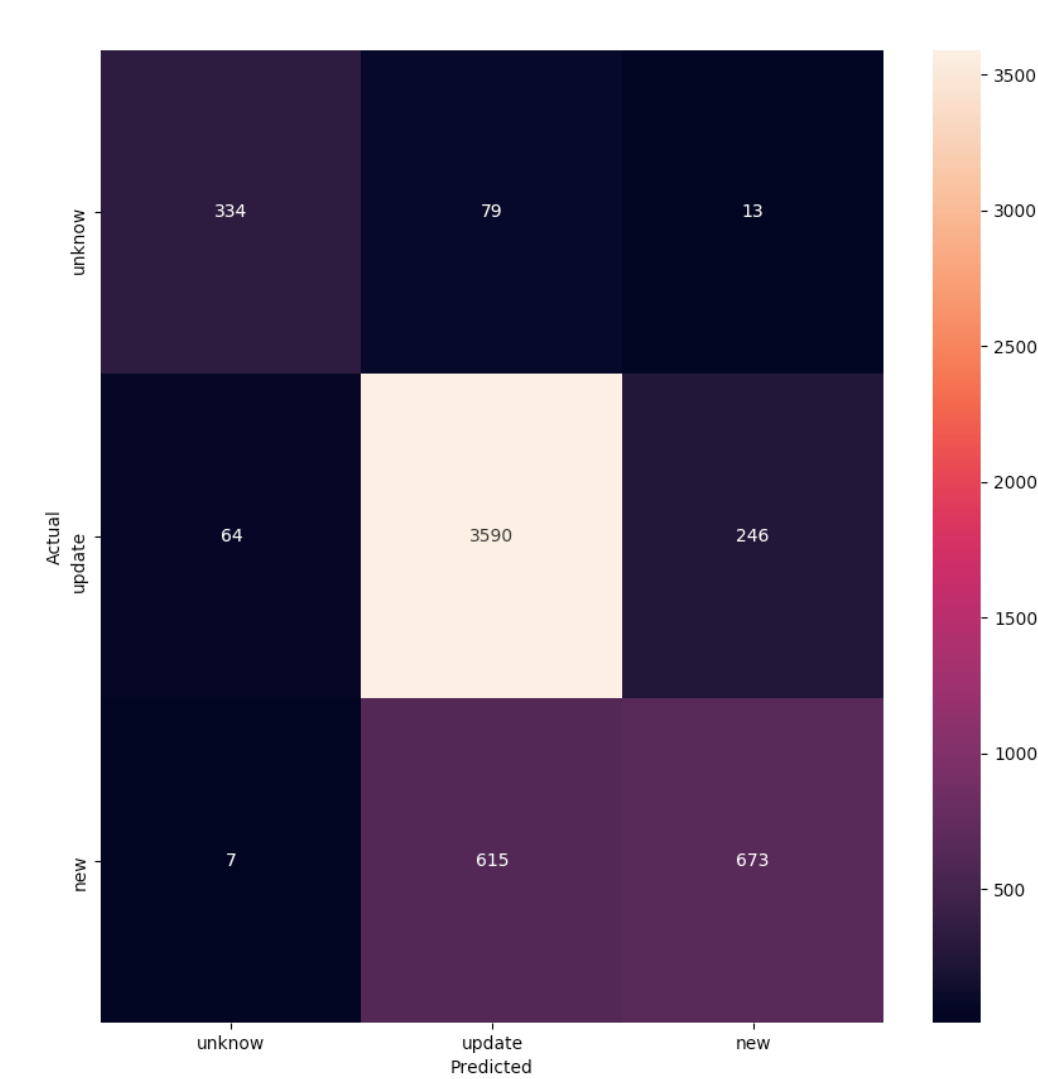


Training set accuracy report and confusion matrix:

USE

	precision	recall	f1-score	support
unknow	0.82	0.78	0.80	426
update	0.84	0.92	0.88	3900
new	0.72	0.52	0.60	1295
accuracy			0.82	5621
macro avg	0.79	0.74	0.76	5621
weighted avg	0.81	0.82	0.81	5621



USE with BN

	precision	recall	f1-score	support
unknow	0.98	0.65	0.78	426
update	0.90	0.98	0.94	3900
new	0.94	0.80	0.86	1295
accuracy			0.92	5621
macro avg	0.94	0.81	0.86	5621
weighted avg	0.92	0.92	0.91	5621

