

Linear SVM					
Class	Precision	Recall	F1-score	Fbeta-score	Support
Inactive	0.39/0.33	<b>0.79/0.90</b>	<b>0.52/0.48</b>	<b>0.66/0.71</b>	262438
Active	0.88/0.91	0.56/0.35	0.69/0.51		737562
Avg/total	0.75/0.76	<b>0.62/0.5</b>	0.64/0.50		1000000
Note	class weight = balanced, C=1E6, max iter = 25000, time=2.5 day				

Logistic Regression					
Class	Precision	Recall	F1-score	Fbeta-score	Support
Inactive	0.41	<b>0.84</b>	<b>0.55</b>	<b>0.69</b>	
Active	0.91	0.56	0.69		
Avg/total	0.78	<b>0.63</b>	0.63		
Note	class weight = balanced, C=10/100/1000 , max iter=3000, time=40 minute				

AdaBoostClassifier (Logistic Regression/ Perceptron)					
Class	Precision	Recall	F1-score	Fbeta-score	Support
Inactive	0.30/	<b>0.85/</b>	<b>0.46/</b>	<b>0.62/</b>	
Active	0.85/	0.31/	0.45/		
Avg/total	0.71/	<b>0.45/</b>	0.45/		
Note	class weight = balanced, C=10/30/50/100, n_estimators = 50/100, time=40 minute				

Paper Cross entropy (week 7/ week 8)					
Class	Precision	Recall	F1-score	Fbeta-score	Support
Inactive	0.31/0.32	<b>0.76/0.75</b>	<b>0.44/0.45</b>	<b>0.59/0.59</b>	129054/133384
Active	0.83/0.82	0.42/0.42	0.56/0.55		370946/366616
Avg/total	0.70/0.69	<b>0.51/0.51</b>	0.53/0.53		
Note	<ul style="list-style-type: none"><li>- <b>Có w0, re-scale, class weight = 0.4-0.6</b></li><li>- Bỏ chuẩn hóa w0 → fail</li><li>- Bỏ chuẩn hóa wi → fail</li><li>- Bỏ chuẩn hóa cả w0, wi → bad</li></ul>				
Paper Cross entropy (week 7/ week 8)					
Class	Precision	Recall	F1-score	Fbeta-score	Support
Inactive	0.37/0.37	<b>0.73/0.71</b>	<b>0.49/0.49</b>	<b>0.61/0.60</b>	129054/133384
Active	0.85/0.84	0.56/0.57	0.68/0.68		370946/366616
Avg/total	0.73/0.72	<b>0.61/0.60</b>	0.63/0.63		
Note	<ul style="list-style-type: none"><li>- <b>Bỏ w0, re-scale, bỏ chuẩn hóa wi, class weight= balanced</b></li><li>- Chuẩn hóa wi → fail</li></ul>				

Paper Hinge Loss (week 7/ week 8)					
Class	Precision	Recall	F1-score	Fbeta-score	Support
Inactive	0.28/0.29	<b>0.46/0.45</b>	<b>0.35/0.35</b>	<b>0.41/0.41</b>	129054/133384
Active	0.76/0.75	0.60/0.59	0.67/0.66		370946/366616
Avg/total	0.64/0.62	<b>0.56/0.55</b>	0.59/0.58		
Note	<ul style="list-style-type: none"><li>- <b>Có w0</b></li><li>- Bỏ chuẩn hóa w0 → fail</li><li>- Bỏ chuẩn hóa wi → fail</li><li>- Bỏ chuẩn hóa cả w0, wi → bad</li></ul>				
Paper Hinge Loss (week 7/ week 8)					
Class	Precision	Recall	F1-score	Fbeta-score	Support
Inactive	0.26/0.27	<b>0.54/0.54</b>	<b>0.35/0.36</b>	<b>0.45/0.45</b>	129054/133384
Active	0.75/0.73	0.46/0.46	0.57/0.57		370946/366616
Avg/total	0.62/0.61	<b>0.48/0.48</b>	0.52/0.51		
Note	<ul style="list-style-type: none"><li>- <b>Bỏ w0</b></li><li>- Bỏ chuẩn hóa wi → fail</li></ul>				

Ensemble (Logistic Regression/Linear SVM)					
Class	Precision	Recall	F1-score	Fbeta-score	Support
Inactive	0.41/0.45	<b>0.84/0.52</b>	<b>0.56/0.48</b>	<b>0.70/0.52</b>	
Active	0.91/0.82	0.56/0.77	0.69/0.79		
Avg/total	0.78/0.72	<b>0.63/0.70</b>	0.66/0.71		
Note	C=10/100/100 – 1E4, max iter = 3000, time=40/120 minute				

Kernel SVM, Random Forest, Ensemble Gauss,					
Class	Precision	Recall	F1-score	Fbeta-score	Support
Inactive					
Active					
Avg/total					
Note	Fail/Bad				

Class	Precision	Recall	F1-score	Fbeta-score	Support
Inactive					
Active					
Avg/total					
Note					

Class	Precision	Recall	F1-score	Fbeta-score	Support
Inactive					
Active					
Avg/total					
Note					

Class	Precision	Recall	F1-score	Fbeta-score	Support
Inactive					
Active					
Avg/total					
Note					

Class	Precision	Recall	F1-score	Fbeta-score	Support
Inactive					
Active					
Avg/total					
Note					