OUTPUT:

Initial dataset shape and head()

Final dataset shape: (2000	04, 3)
category	
Praise	7480
Emotional	5797
Hate/Abuse	2709
Threat	2373
Support	1641
Constructive Criticism	2
Irrelevant/Spam	1
Question/Suggestion	1
Name: count, dtype: int64	

Accuracy score

Model Accuracy: 0.0000279990017490				
	precision	recall	f1-score	support
Emotional	0.92	0.94	0.93	1173
Hate/Abuse	0.94	0.82	0.87	565
Irrelevant/Spam	0.00	0.00	0.00	1
Praise	0.85	0.96	0.90	1492
Support	0.89	0.70	0.78	321
Threat	0.89	0.72	0.80	449
accuracy			0.89	4001
macro avg	0.75	0.69	0.71	4001
weighted avg	0.89	0.89	0.89	4001

Comment with their predicted category and their suggested reply

Comment: Amazing work! Loved the animation.

Predicted Category: Praise

Suggested Reply: Thank you for your kind words! We appreciate your

support.

Comment: Keep going, you're doing great!

Predicted Category: Praise

Suggested Reply: Thank you for your kind words! We appreciate your

support.

Comment: This is trash, quit now.

Predicted Category: Emotional

Suggested Reply: We're glad our content connected with you emotionally.

Comment: I'll report you if this continues.

Predicted Category: Emotional

Suggested Reply: We're glad our content connected with you emotionally.

Comment: This reminded me of my childhood.

Predicted Category: Emotional

Suggested Reply: We're glad our content connected with you emotionally.

Comment: Follow me for followers!

Predicted Category: Praise

Suggested Reply: Thank you for your kind words! We appreciate your

support.

Comment: The video was good, but the sound was poor.

Predicted Category: Praise

Suggested Reply: Thank you for your kind words! We appreciate your

support.

Comment: Can you make one on topic X?

Predicted Category: Praise

Suggested Reply: Thank you for your kind words! We appreciate your

support.

Real time classifier tool

Comment Categorization & Reply Assistant Tool (type 'exit' to stop)

Enter a comment: Hey this project seems cool!

Predicted Category: Praise

Suggested Reply: Thank you for your kind words! We appreciate your

support.

Enter a comment: exit