	RANDOM FOREST RESULT in list analyze & findings
	Notifications
=	Description
	3.1 Random Forest - Hyperparameter Tuning 🔽
	lemmatization = nlp_id
	vectorizer = CountVectorizer
	3.2 Random Forest - Hyperparameter Tuning
	lemmatization = nlp_id
	vectorizer = TF-IDF
	3.3 Random Forest - Hyperparameter Tuning
	lemmatization = nlp_id
	, -
	vectorizer = Word2Vec
	3 4 Random Forest - Hynernarameter Tuning 💀
	✓ Show more
0	Attachments
	Files
	image.png Added 20 Sept 2024, 20:11
	image.png
	Added 20 Sept 2024, 20:11
	image.png
	Added 20 Sept 2024, 19:14
	image.png
	Added 20 Sept 2024, 19:14

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3.6 Random Forest - Hyperparameter Tuning

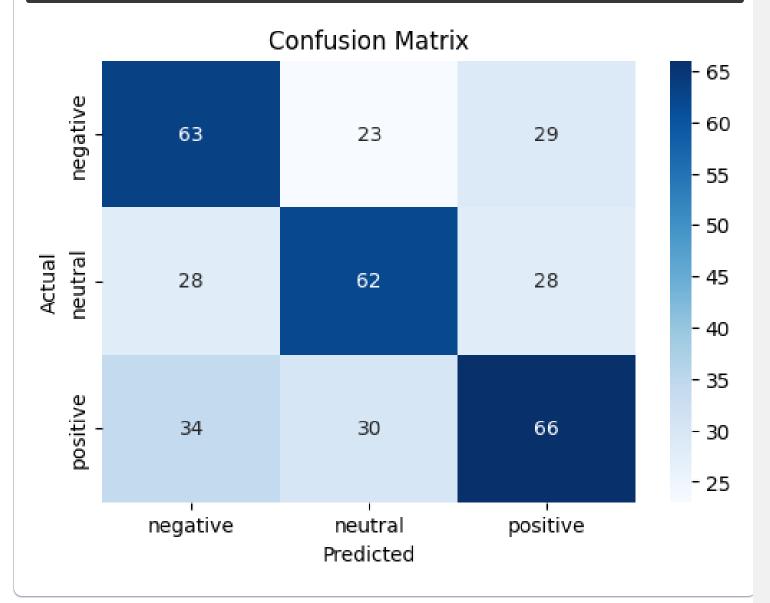
lemmatization = nlp_id

vectorizer = GPT

Best Parameters for Random Forest: {'bootstrap': False, 'max_depth': None, 'max_features': 'sqrt', 'min_samples_leaf': 1, 'min_samples_split': 5, 'n_estimators': 200} Best Random Forest Score:

0.5454545454545454

Accuracy: 0.5261707988980716 Classification Report:					
	precision	recall	f1-score	support	
negative	0.50	0.55	0.53	115	
neutral	0.54	0.53	0.53	118	
positive	0.54	0.51	0.52	130	
accuracy			0.53	363	
macro avg	0.53	0.53	0.53	363	
weighted avg	0.53	0.53	0.53	363	





3.5 Random Forest - Hyperparameter Tuning

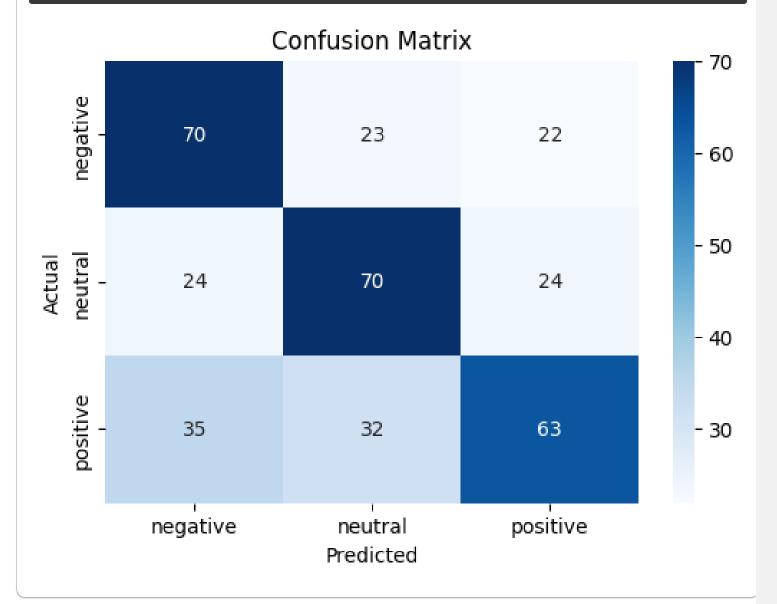
lemmatization = nlp_id

vectorizer = RoBERTa

Best Parameters for Random Forest: {'bootstrap': False, 'max_depth': 10, 'max_features': 'sqrt', 'min_samples_leaf': 2, 'min_samples_split': 5, 'n_estimators': 200} Best Random Forest Score:

0.5482093663911846

Accuracy: 0.559228650137741 Classification Report:					
	precision	recall	f1-score	support	
negative	0.54	0.61	0.57	115	
neutral	0.56	0.59	0.58	118	
positive	0.58	0.48	0.53	130	
accuracy			0.56	363	
macro avg	0.56	0.56	0.56	363	
weighted avg	0.56	0.56	0.56	363	





3.4 Random Forest - Hyperparameter Tuning

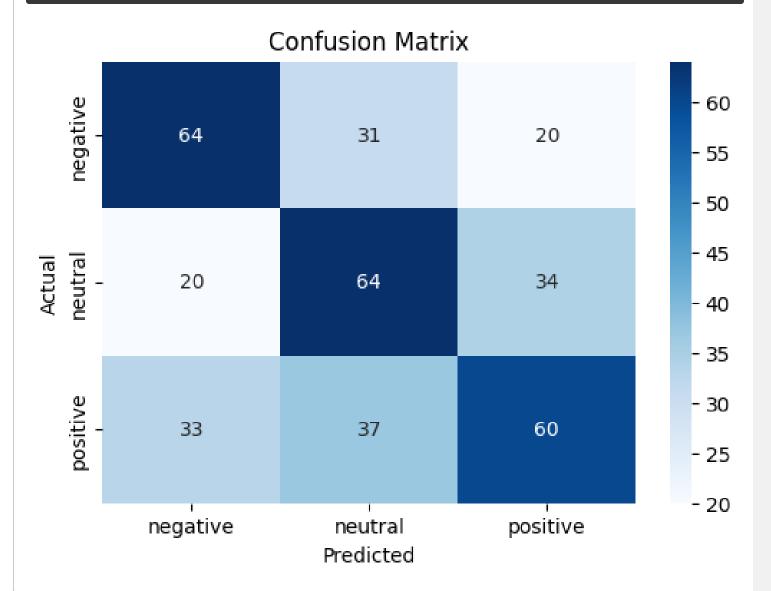
lemmatization = nlp_id

vectorizer = BERT

Best Parameters for Random Forest: {'bootstrap': False, 'max_depth': 10, 'max_features': 'sqrt', 'min_samples_leaf': 2, 'min_samples_split': 5, 'n_estimators': 100} Best Random Forest Score:

0.5523415977961431

Accuracy: 0.5179063360881543 Classification Report:					
	precision	recall	f1-score	support	
negative	0.55	0.56	0.55	115	
neutral	0.48	0.54	0.51	118	
positive	0.53	0.46	0.49	130	
accuracy			0.52	363	
macro avg	0.52	0.52	0.52	363	
weighted avg	0.52	0.52	0.52	363	



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3.3 Random Forest - Hyperparameter Tuning

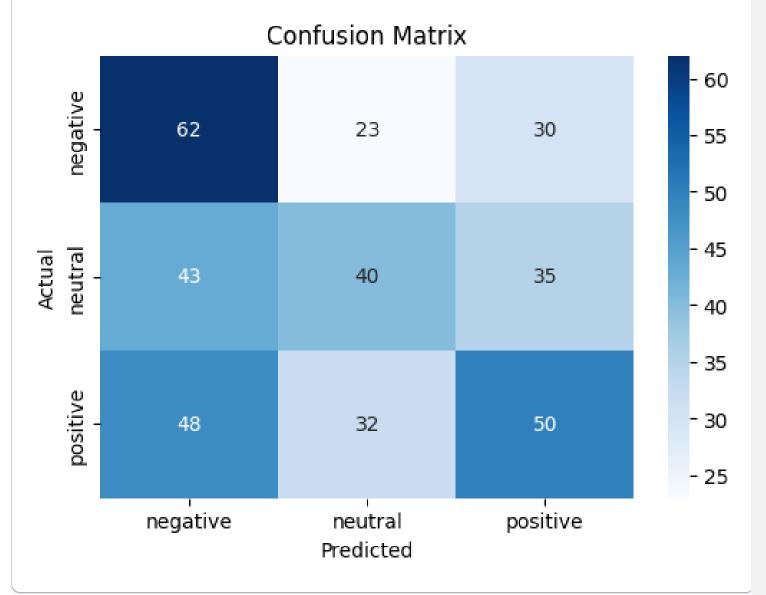
lemmatization = nlp_id

vectorizer = Word2Vec

Best Parameters for Random Forest: {'bootstrap': True, 'max_depth': 10, 'max_features': 'sqrt', 'min_samples_leaf': 2, 'min_samples_split': 10, 'n_estimators': 50} Best Random Forest Score:

0.47727272727273

Accuracy: 0.418732782369146 Classification Report:					
	precision	recall	f1-score	support	
negative	0.41	0.54	0.46	115	
neutral	0.42	0.34	0.38	118	
positive	0.43	0.38	0.41	130	
accuracy			0.42	363	
macro avg	0.42	0.42	0.42	363	
weighted avg	0.42	0.42	0.41	363	





3.2 Random Forest - Hyperparameter Tuning

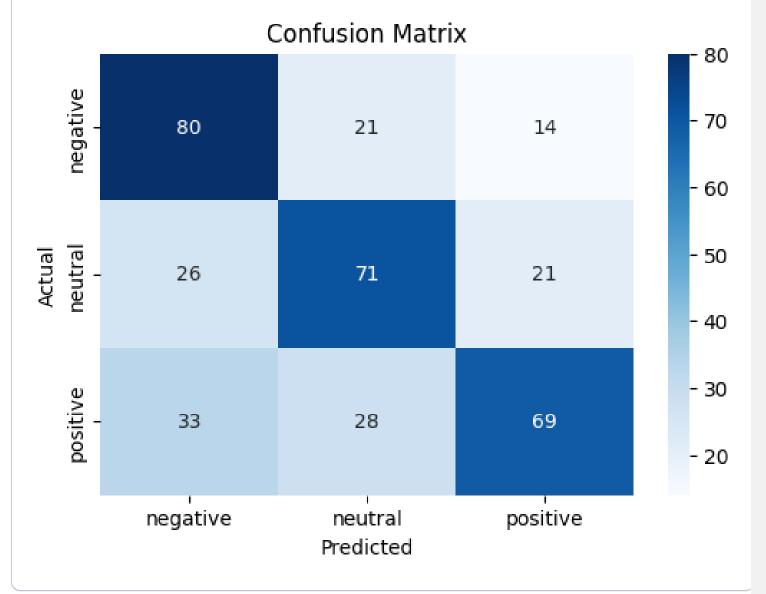
lemmatization = nlp_id

vectorizer = tf-idf

Best Parameters for Random Forest: {'bootstrap': True, 'max_depth': None, 'max_features': 'sqrt', 'min_samples_leaf': 2, 'min_samples_split': 5, 'n_estimators': 200} Best Random Forest Score:

0.6136363636363636

Accuracy: 0.6060606060606061 Classification Report:					
	precision	recall	f1-score	support	
negative	0.58	0.70	0.63	115	
neutral	0.59	0.60	0.60	118	
positive	0.66	0.53	0.59	130	
accuracy			0.61	363	
macro avg	0.61	0.61	0.61	363	
weighted avg	0.61	0.61	0.60	363	





3.1 Random Forest - Hyperparameter Tuning

lemmatization = nlp_id

vectorizer = CountVectorizer

Best Parameters for Random Forest: {'bootstrap': False, 'max_depth': 20, 'max_features': 'sqrt', 'min_samples_leaf': 1, 'min_samples_split': 5, 'n_estimators': 200} Best Random Forest Score:

0.5902203856749311

Accuracy: 0.6446280991735537 Classification Report:					
Classification	precision	recall	f1-score	support	
negative neutral positive	0.63 0.62 0.69	0.74 0.68 0.53	0.68 0.65 0.60	115 118 130	
accuracy macro avg weighted avg	0.65 0.65	0.65 0.64	0.64 0.64 0.64	363 363 363	

Confusion Matrix 85 17 13 70 60 Actual neutral - 50 20 80 18 - 40 - 30 29 32 69 - 20 neutral positive negative Predicted





Kaira Milani Fitria added this card to Analyze & Findings

19 Sept 2024, 16:57