# Project Development Phase Model Performance Test

Date	20 November 2023
Team ID	Team-593004
Project Name	Restaurant Recommendation System
Maximum Marks	10 Marks

## **Model Performance Testing:**

Project team shall fill the following information in model performance testing template.

S.No	Parameter	Values	Screenshot	
1.	Model Summary	Total params: 51717	<pre>print(tfidf_matrix)</pre>	
		Trainable params: 51717 Non-trainable params: 0	(0, 335) 0.09050558119962672 (0, 302) 0.03341453473377206 (0, 446) 0.033819809167502435 (0, 469) 0.03982172027872017 (0, 145) 0.04324949701661939 (0, 156) 0.04217634229937303 (0, 331) 0.031157519690629614 (0, 343) 0.02992869453363663 (0, 166) 0.042330936225375745 (0, 332) 0.03870388657349989 (0, 55) 0.04290934997295113 (0, 468) 0.03922481562431514 (0, 467) 0.0944860488521032 (0, 466) 0.1889720977042064 (0, 471) 0.1890022828493481 (0, 472) 0.0944860488521032 (0, 189) 0.04280548380396971	
2.	Accuracy	[0.50221598 1.	: from sklearn.metrics.pairwise import cosine_similarity cosine_similarities = cosine_similarity(tfidf_matrix, tfidf_matrix) print(cosine_similarities)  [[1.	

3.	Confidence Score (Only Yolo	Class Detected - NA	Not Applicable
	Projects)		
		Confidence Score - NA	

#### Screenshot:

### **Model Summary**

```
# tfidf_matrix = tfidf.fit_transform(zomato_df['reviews_list'])
print(tfidf_matrix)
                   0.09050558119962672
  (0. 335)
   (0, 302)
                   0.03341453473377206
   (0, 446)
                   0.033819809167502435
  (0, 469)
                   0.03982172027872017
  (0, 145)
                   0.04324949701661939
  (0, 156)
                   0.04217634229937303
                   0.031157519690629614
  (0, 331)
   (0, 343)
                   0.02992869453363663
  (0, 166)
(0, 332)
                   0.042330936225375745
                   0.03870388657349989
   (0, 55)
                   0.04290934997295113
  (0, 468)
(0, 467)
                   0.03922481562431514
                   0.0944860488521032
   (0, 466)
                   0.1889720977042064
  (0, 471)
                   0.1890022828493481
  (0, 472)
                   0.0944860488521032
   (0, 189)
                   0.04280548380396971
                   0.03568166923014868
  (0, 329)
   (0, 339)
                   0.03835899398359285
   (0, 369)
                   0.03679100441842422
                   0.03667299685656544
  (0, 161)
                   0.03996109075607079
  (0, 10)
   (0, 336)
                   0.16809763537137776
  (0, 218)
(0, 288)
                   0.11802103890218092
                   0.25600926546643415
   (9999, 268)
(9999, 143)
                  0.04135888868783523
                  0.0424651069661403
   (9999, 134)
(9999, 33)
                  0.1828155969602061
   (9999, 394)
(9999, 279)
(9999, 364)
                  0.016439960901681205
                  0.027375687337698903
                  0.031942543262025884
   (9999, 273)
(9999, 155)
                  0.09269938348465552
0.12301698001865648
   (9999, 9)
(9999, 352)
                  0.052145869261182684
                  0.046533653139045054
   (9999, 119)
                  0.06598837968106228
   (9999, 93)
(9999, 57)
                  0.047504760766281684
0.03125766918845868
                  0.005012970206746646
0.08453730277533007
   (9999, 197)
   (9999, 368)
   (9999, 407)
                  0.022089535857708068
   (9999, 15)
                   0.02311572560239967
   (9999, 187)
                  0.08656085888112043
   (9999, 199)
(9999, 458)
                  0.05054805899502103
0.00706326952935652
   (9999, 293)
(9999, 191)
                  0.03527266666768827
                  0.061047940672636296
   (9999, 298)
(9999, 326)
                  0.18234967217823245
                  0.34765365197641407
```

## cosine similarities

0.83355381]

[0.75703156 0.41495973 0.5831625 ... 0.83368403 1.

[0.73391875 0.4763919 0.60333686 ... 0.79002275 0.83355381 1.