Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID06357
Project Name	Project – Detecting of Parkinson's disease
	using Machine Learning
Maximum Marks	10 Marks

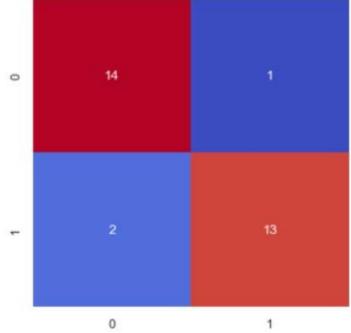
Model Performance Testing:

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

SNo	Parameter	Values
1.	Metrics	Classification Model: Confusion Matrix and Accuracy Score
2.	Testing	Testing model: Total Requests per second, Response Times, No. of users
3.	Locus Testing Report	Testing Report: Request Statistics, Response Time Statistics, Final Ratio

1)Metric

Model Evaluation



Accuracy:

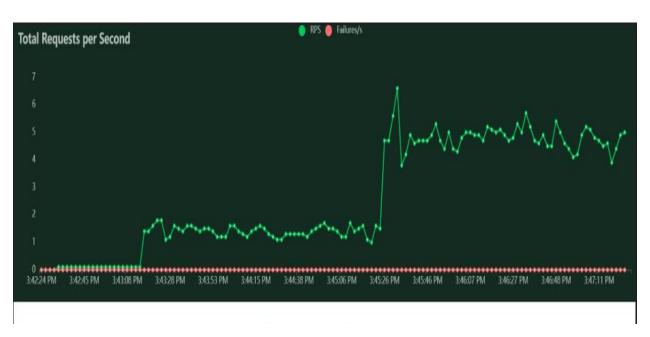
Model accuracy and Prediction ¶

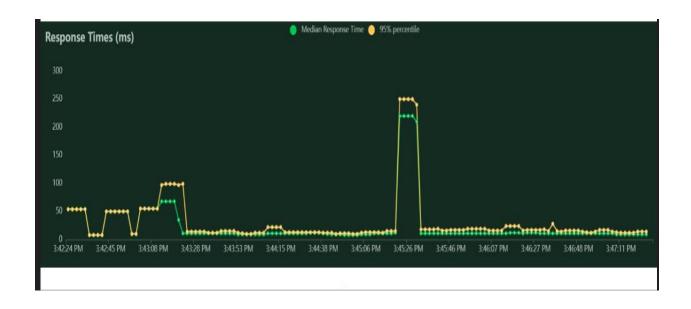
```
In [45]: predictions = model.predict(testX)

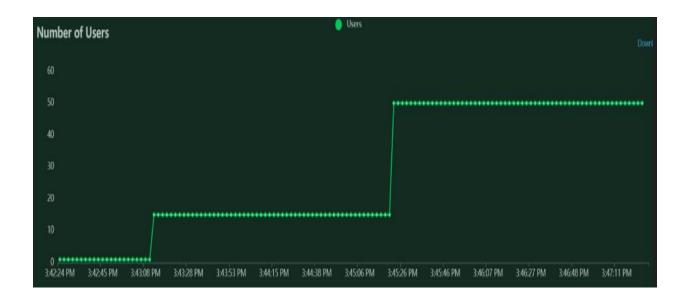
cm = confusion_matrix(testY, predictions).flatten()
print(cm)
(tn, fp, fn, tp) = cm
accuracy = (tp + tn) / float(cm.sum())
print(accuracy)

[14  1  2  13]
0.9
```

2) Testing







3) Locus Testing Report:

Request Statistics										
Method	Name	# Requests	#Fails	Average (ms)	Min (ms)	Max (ms)	Average size (bytes)	RPS	Failures/s	
GET	1	131	0	16	5	221	1632	0.4	0.0	
GET	/contact	127	0	30	5	241	4007	0.4	0.0	
GET	/explore	115	0	18	4	260	2233	0.4	0.0	
GET	/home	104	0	26	5	252	1182	0.3	0.0	
GET	/images	127	0	18	5	240	1207	0.4	0.0	
GET	/prediction	134	0	20	5	229	380	0.4	0.0	
GET	/signup	80	0	19	5	237	2021	0.3	0.0	
	Aggregated	818	0	21	4	260	1794	2.6	0.0	

Response Time Statistics									
Method	Name	50%ile (ms)	60%ile (ms)	70%ile (ms)	80%ile (ms)	90%ile (ms)	95%ile (ms)	99%ile (ms)	100%ile (ms)
GET	1	11	11	11	12	14	17	220	220
GET	/contact	11	11	12	13	88	220	230	240
GET	/explore	11	11	12	13	16	22	240	260
GET	/home	11	11	12	14	20	220	250	250
GET	/images	11	11	12	13	17	32	220	240
GET	/prediction	11	11	11	13	15	65	230	230
GET	/signup	11	11	12	13	15	50	240	240
	Aggregated	11	11	12	13	17	75	230	260

Final ratio

Ratio per User class

- 100.0% WebsiteUser
 - o 14.3% index
 - o 14.3% home
 - o 14.3% home1
 - o 14.3% contact
 - o 14.3% prediction
 - o 14.3% images
 - o 14.3% explore

Total ratio

- 100.0% WebsiteUser
 - o 14.3% index
 - o 14.3% home
 - o 14.3% home1
 - o 14.3% contact
 - o 14.3% prediction
 - o 14.3% images
 - o 14.3% explore