

Project Development Phase Model Performance Test

Date	05 November 2022
Team ID	PNT2022TMID13778
Project Name	Project - Early Detection Of Chronic Kidney Disease Using Machine Learning
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.	Metrics	Classification Model: Confusion Matrix - , Accuray Score- & Classification Report -	<p>Classification Model : Confusion Matrix :</p> <pre>confmat=confusion_matrix(ytest,ypred) confmat array([[48, 6], [0, 26]]) array([[48, 6], [0, 26]])</pre> <p>Accuracy Score :</p> <pre>print(accuracy_score(ytest,ypred)*100) 92.5</pre> <p>Classification Report :</p> <pre>print(classification_report(ytest, ypred))</pre> <table><thead><tr><th></th><th>precision</th><th>recall</th><th>f1-score</th><th>support</th></tr></thead><tbody><tr><td>0</td><td>1.00</td><td>0.89</td><td>0.94</td><td>54</td></tr><tr><td>1</td><td>0.81</td><td>1.00</td><td>0.90</td><td>26</td></tr><tr><td>accuracy</td><td></td><td></td><td>0.93</td><td>80</td></tr><tr><td>macro avg</td><td>0.91</td><td>0.94</td><td>0.92</td><td>80</td></tr><tr><td>weighted avg</td><td>0.94</td><td>0.93</td><td>0.93</td><td>80</td></tr></tbody></table>		precision	recall	f1-score	support	0	1.00	0.89	0.94	54	1	0.81	1.00	0.90	26	accuracy			0.93	80	macro avg	0.91	0.94	0.92	80	weighted avg	0.94	0.93	0.93	80
	precision	recall	f1-score	support																													
0	1.00	0.89	0.94	54																													
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macro avg	0.91	0.94	0.92	80																													
weighted avg	0.94	0.93	0.93	80																													

2.	Tune the Model	Hyperparameter Tuning - Validation Method -	<div>Validation Method :</div> <pre>y = column_0_int(y, warm=True) Cross-Validation Accuracy Scores [0.85714286 0.85714286 0.85714286 0.71428571 1. 1. 0.85714286 1. 0.85714286 0.85714286 1. 0.85714286 0.85714286 0.85714286 0.85714286 1. 1. 1. 0.85714286 1. 1. 1. 1. 1. 0.83333333 0.83333333 1. 1. 1. 1. 0.83333333 0.83333333 0.66666667 0.83333333 1. 0.83333333 1. 1. 0.83333333 0.83333333 0.83333333 1. 1. 0.83333333 1. 0.83333333 0.66666667 0.83333333 1. 1.]</pre> <div>Hyperparameter Tuning :</div> <pre>LABEL ENCODING OF : sm Counter({0: 140, 1: 48}) Counter({0: 140, 1: 48}) LABEL ENCODING OF : sm Counter({0: 140, 1: 137}) Counter({0: 140, 1: 137}) LABEL ENCODING OF : ha Counter({0: 176, 1: 22}) Counter({0: 176, 1: 22}) LABEL ENCODING OF : classification Counter({0: 204, 1: 150}) Counter({0: 204, 1: 150}) LABEL ENCODING OF : sg Counter({3: 115, 1: 84, 4: 81, 2: 75, 0: 7}) Counter({2: 115, 1: 84, 4: 81, 2: 75, 0: 7}) LABEL ENCODING OF : w1 Counter({0: 245, 1: 44, 2: 43, 3: 43, 4: 24, 5: 1}) Counter({0: 245, 1: 44, 2: 43, 3: 43, 4: 24, 5: 1}) LABEL ENCODING OF : appet ... LABEL ENCODING OF : pe Counter({0: 324, 1: 74}) Counter({0: 324, 1: 74})</pre>
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