



Model Development Phase Template

Date	10 July 2024
Team ID	SWTID1720174640
Project Title	Early Prediction of Chronic Kidney Disease
Maximum Marks	4 Marks

Initial Model Training Code, Model Validation and Evaluation Report

The initial model training code will be showcased in the future through a screenshot. The model validation and evaluation report will include classification reports, accuracy, and confusion matrices for multiple models, presented through respective screenshots.

Initial Model Training Code:

```
Model Bulding

[ ] from sklearn.linear_model import LogisticRegression
    clf = LogisticRegression()
    clf.fit(x_train,y_train)

The LogisticRegression
    LogisticRegression()
```





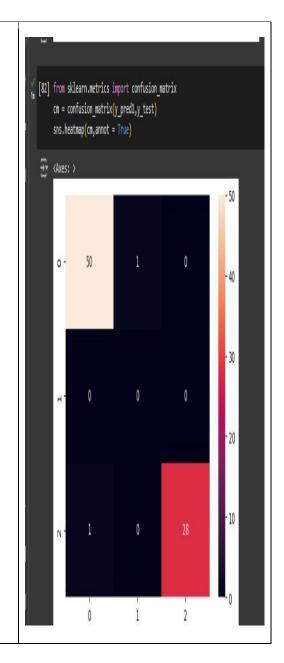
${\bf Model\ Validation\ and\ Evaluation\ Report:}$

Model	Classification Re	port Accuracy	Confusion Matrix
Logistic Regression	# classification report from sklearn.metrics import classification_report print(classification_report(y_pred,y_test)) precision recall f1-score st 0 0.98 0.98 0.98 0.98 1 0.00 0.00 0.00 2 1.00 0.97 0.98 accuracy 0.97 macro avg 0.66 0.65 0.65 weighted avg 0.99 0.97 0.98 /usr/local/lib/python3.10/dist-packages/sklearn/ _warn_prf(average, modifier, msg_start, len(re/ /usr/local/lib/python3.10/dist-packages/sklearn/	pport 51 0 29 80 80 80 metrics/_classification.py: sult)) metrics/_classification.py: sult))	from sklearn.metrics import confusion_matrix





	[84] from sklearn.metrics import classification_report print(classification_report(y_pred1,y_test))					
	C * 2)	precision	recall	f1-score	support	
Support Vector Classifier (SVC)		0 0.98	0.98	0.98	51	
		1 0.00	0.00	0.00	0	
		2 1.00	0.97	0.98	29	
	accura	су		0.97	80	
	macro a	vg 0.66	0.65	0.65	80	
	weighted a	vg 0.99	0.97	0.98	80	
	/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classificationswarn_prf(average, modifier, msg_start, len(result)) /usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classificationswarn_prf(average, modifier, msg_start, len(result)) /usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classificationswarn_prf(average, modifier, msg_start, len(result))					



0.975