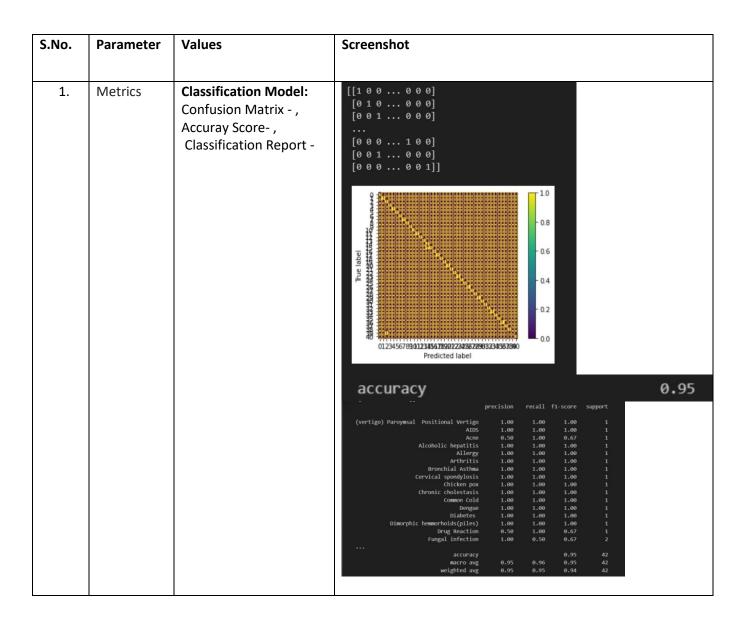
## Project Development Phase Model Performance Test

| Date          | 10 November 2022                                       |
|---------------|--|
| Team ID       | PNT2022TMID592183                                      |
| Project Name  | Project – Disease Prediction Using Machine<br>Learning |
| Maximum Marks | 10 Marks   |

## **Model Performance Testing:**



| 2. | 2. Tune the Model Hyperparameter Tuning - (Not required due to high accuracy) Validation Method - | <pre>In [36]: X = train.drop('prognosis',axis = 1) y = train.prognosis  In [37]: X_train, X_val, y_train, y_val = train_test_split(X,y,test_size = 0.2) In [38]: test = data_preprocessing(test) In [39]: X_test = test.drop('prognosis',axis = 1) y_test = test.prognosis</pre> |          |                         |                   | test_size = 0.2)    |                  |
|----|---|--|----------|-------------------------|-------------------|---------------------|------------------|
|    |   |  |          |                         | Training Accuracy | Validation Accuracy | Testing Accuracy |
|    |   |  | K Neares | t Neighbors Classifier  | 1.00000           | 1.000000            | 1.00000          |
|    |   |  | Suj      | port Vector Machines    | 1.00000           | 1.000000            | 1.00000          |
|    |   |  | De       | cision Trees Classifier | 1.00000           | 1.000000            | 0.97619          |
|    |   |  | Ran      | ndom Forest Classifier  | 0.99873           | 0.998984            | 0.97619          |