**COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE – 641 014**

**(**Government Aided Autonomous Institution)

**DEPARTMENT OF COMPUTING-Decision & Computing Sciences**

**22MDC56 – Machine Learning Laboratory**

**Continuous Assessment Test - I**

**SEM : V Maximum Marks: 40**

**Date: 21.08.2024 Time: 2 pm to 4.45pm**

**SET II**

Built a model for the given dataset which contains the details about the images produced from a telescope.Apply the Naïve Bayes classifier, to determine if the atmosphere contains high energy gamma particles.Adjust the hyperparameters and evaluate the outcome.

**Dataset Information:**

https://docs.google.com/document/d/1uV3SUvosSWrJtvscFBCo8n-y8QbnvbuJVuNh-jAdOzk/edit?usp =sharing

<https://docs.google.com/spreadsheets/d/18dJqNqJfCWPzBpDLgFY_Lmrnf_7fN1bF/edit?usp=sharing&ouid=102422758037362745687&rtpof=true&sd=true>

**Evaluation Criteria**

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| --- | --- |
| Components | Marks |
| Data Importing and Pre processing | 4 |
| Exploratory Data Analysis | 4 |
| Model Implementation | 7 |
| Evaluation of Model | 6 |
| Performance tuning | 4 |
| Prediction | 3 |
| Graph and Business Insights | 3+4 |
| Viva | 5 |
| **Total** | **40** |