**Project 2 Report (<= 2 pages)**

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# **Member Roles**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | TrainMyClassifier | | | MyCrossValidate | TestMyClassifier | | | MyConfusionMatrix |
| RVM | SVM | GPR | RVM | SVM | GPR |
| B. Poddar |  | 1 |  |  |  | 1 |  |  |
| N. K. Sunki |  |  | 1 |  |  |  | 1 |  |
| V. Chennapalli | 1 |  |  |  | 1 |  |  |  |
| C. Luo |  |  |  | 1 |  |  |  | 1 |

# **Observations**

Briefly state how to perform the 5-fold cross validation on Dataset 1:

## **Relevance Vector Machines**

Number of Relevance Vectors for each fold:

Table 1 Overall Confusion Matrix for RVM. Overall Accuracy = ?

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | Non-Class |
|  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Non-Class |  |  |  |  |  |  |

Robustness or not?

Other observations:

## **Support Vector Machines**

Number of Relevance Vectors for each fold:

Table 2 Overall Confusion Matrix for SVM. Overall Accuracy = ?

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | Non-Class |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Non-Class |  |  |  |  |  |  |

Robustness or not?

Other observations:

## **Gaussian Process Regression**

Table 3 Overall Confusion Matrix for GPR. Overall Accuracy = ?

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | Non-Class |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Non-Class |  |  |  |  |  |  |

Robustness or not?

Other observations:

# **Conclusion**

Which one is the best one in terms of accuracy?

Which one is the best one in terms of robustness?