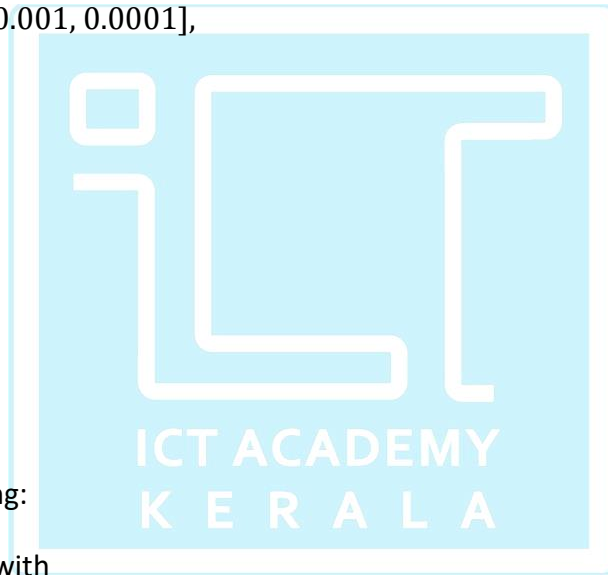


Assignment 04

Cross Validation, Grid search

1. Load titanic.csv file.
2. Select 'Pclass','SibSp','Parch','Fare' columns as data. Select 'Survived' column as label.
3. Apply Logistic regression, KNN, SVM, Decision tree and random forest to classify the data.
4. Use K-Fold Cross Validation to generalise the model accuracy.
5. Use grid search to identify the best possible SVM model from the following search space.

```
'C': [0.1, 1, 10, 100, 1000],  
'gamma': [1, 0.1, 0.01, 0.001, 0.0001],  
'kernel': ['rbf']
```



Please note the following:

Dataset is added along with

Do the assignment in Jupyter notebook/colab

Add the .ipynb file to GitHub and share the link in Paatshala