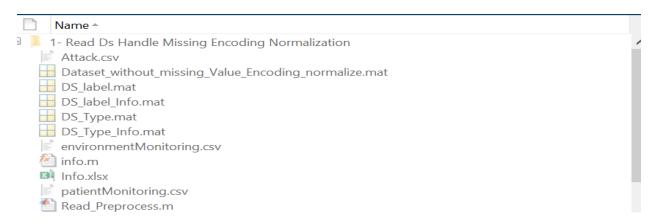
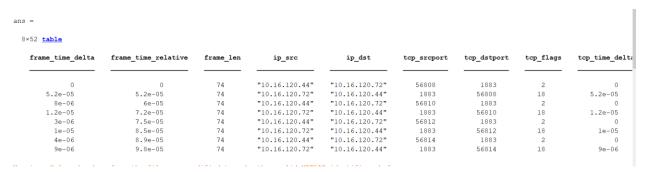
The Project Full Contents

- 1- Read Ds Handle Missing Encoding No...
- 2- Feature Selection-pca
- 3-Classification
- 4- GUI
- final result
- Presentation
- 🖳 Report

Folder contents

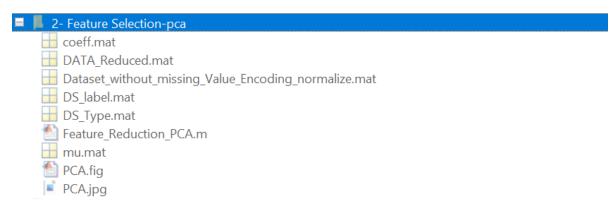


Running the code for loading and exploring the datasets





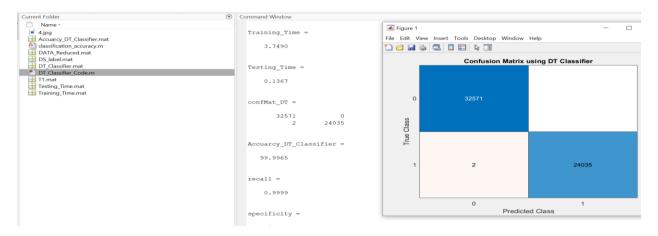
Second folder for Feature Selection



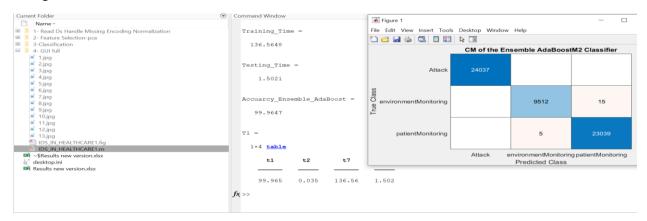
3-Classifications Algorithms



Running the Classification



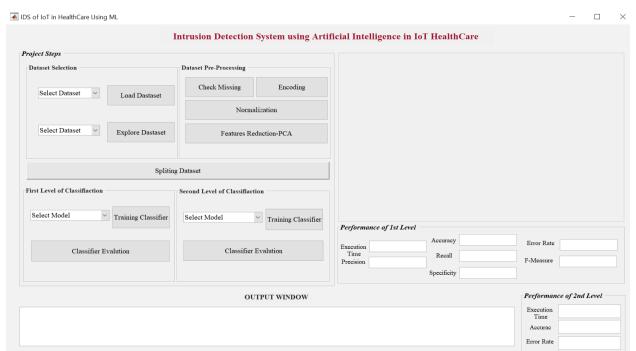
Traing and Evaluation the models



GUI



Full GUI

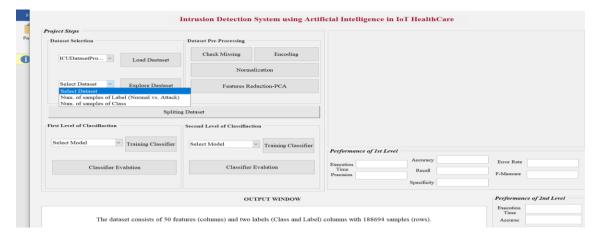


Loading the data

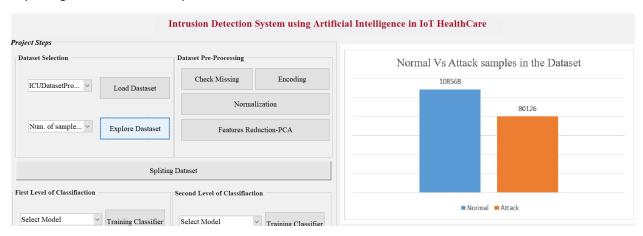
	1	Intrusion Detection System using Artic	ficial Intelligence in IoT HealthCa
Project Steps			
Dataset Selection		Dataset Pre-Processing	
ICUDatasetPro ∨	Load Dastaset	Check Missing Encoding	
		Normalization ✓ Succ —	
Select Dataset	Explore Dastaset	Features Reduct Successfully Loading	
		ОК	
Spliting Dataset			
First Level of Classifiaction		Second Level of Classifiaction	
Select Model	Training Classifier	Select Model	Performance of 1st Level
Classifier Evalution		Classifier Evalution	Execution Time Recall Precision
			Specificity
		OUTPUT WINDOW	

The dataset consists of 50 features (columns) and two labels (Class and Label) columns with 188694 samples (rows).

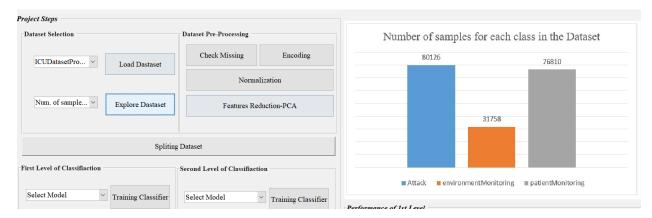
Selection Dataset for Explore



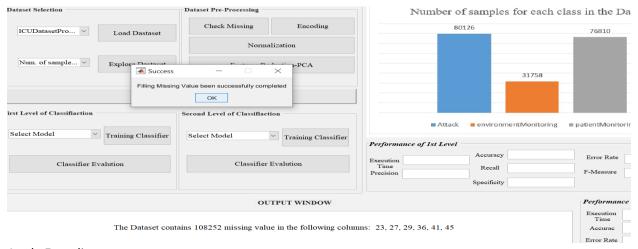
Exploring the data no of sample of label



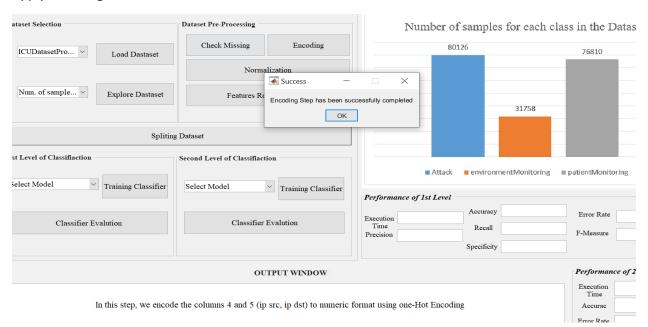
No of each sample Class



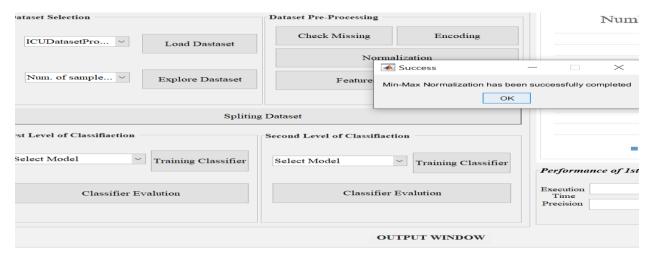
Check Missing values



Apply Encoding

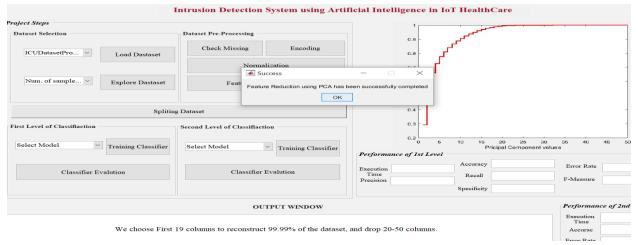


Apply Normalization

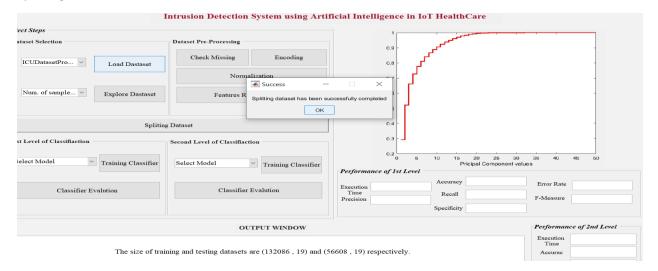


Normalization using Min-Max For All columns In Dataset

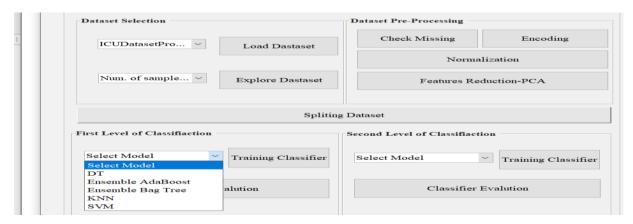
Apply PCA



Splitting the data



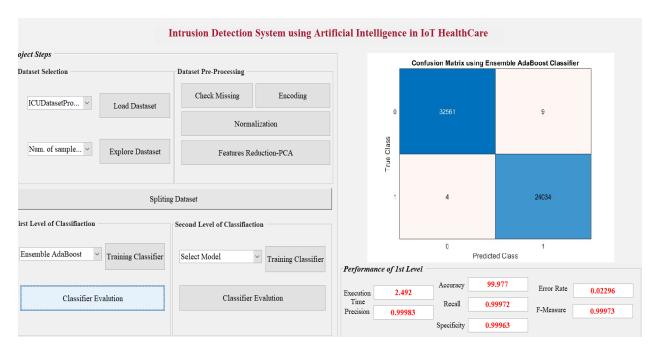
Model classification first Level



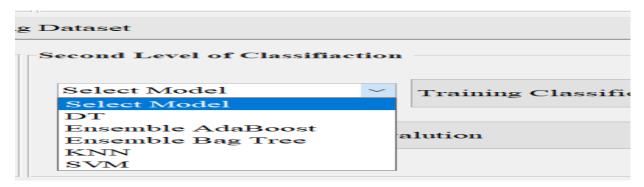
Train First Level classifications



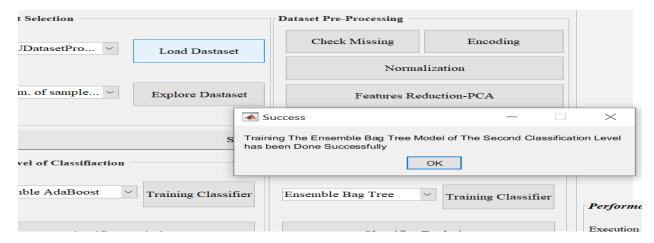
Evaluation first level classification



Second Level of classfication



Train second level



Evaluation

