Hudy of Chaifion with respect to Statistical Parameters

To compose the performance of different classifies using statistical parameters such as F1-score, recall, confusion matrix.

Objective:

- * To implement and evaluate three classifiers

 - * SVM * Navie Bayes
- · To compose their portormance
- * To identify the most sutable model for the Iris dataset.

Pseudo code: Start

- 1. Import and load the Ivis datast -> Extract features (x) and target (alul (Y)
- -> Sflit the dataset into troing and testing
- features using Standard--> Standardize to - Dealar
- -> Initralize the Classifiers model 1 = KNAighbor (lassifice (A neighbors = 5) model 2 = SVC (Kound = 1 linear)

model 3 = Craussian NB () >> Train all models - Model , fit (x-train, y-train) - Model 2 - fit(x-train, y-train) - model 3. fit (x-train, y_train) 7. Predat the fost data using each classifies 8. Evaluate each model Observation: SVM = -Refort Classification Suffort f1. Score recall Preasion (0 1.00 1-00 1.00 0.94 9 0.89 (.00 0.96 11 1.00 0.92 2 30

ocavery 6.97 3 madro and 0.97 0.97 0.97 30 weighted and 0.97 0.97 0.97 30 Nouric Bayes Classification Report:

0 1 2	Precision 1.00 1.00 0.93	recall 1.00 0.92 1.00	1.00 0.96 6.96	Suffort (9 (3 (3
acana ay moore ang wight arg		.97	0.98	45 45

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Roult:

The code has executed succeptully and Navie Bayes forformed well on Iris dataset.











