

Topic: Gender Identification[Classification]

Requirements

- ☐ Create a dataset for gender identification containing at least 100 instances, including males and females, as discussed in the class.
- ☐ Divided the dataset into train and test splits as per standard procedure (80:20)
- ☐ In the training phase, train at least two classifiers, i.e., Perceptron and KNN.
- ☐ In the test phase, evaluate the performance of the above two classifiers and compare the results. Show the results in terms of accuracy in tabular form and using a confusion matrix for each classifier
- ☐ In the application phase, create an interface to accept the input from the user and make real-time predictions.

Theory

Feature Conventions

They are listed in [GENDER IDENTIFICATION MODEL](#)

Conventions

Development

Tasks

- ☒ Download dataset
- ☐ Preprocessing
 - ☒ Import as pandas dataframe
 - ☒ Randomize and normalize data
 - ☒ Prepare two splits (80:20)
 - ☒ Create perceptron model