

HOW TO RUN/TEST OUR PROGRAM

Neural Network:

Our Neural Network classifier was build using Java Maven on IntelliJ, therefore there are two ways so can run our program.

1. We have packaged our program into a “Jar File” named “BackPropagation.jar” which can be found in the folder named “Packaged_Jar_Project”. To run this file, simply open command prompt or bash and type “java -jar BackPropagation.jar”. Instructions will display on how to test our program. You can either test our already trained network (Object file saved as TrainedNetwork.txt) or you can start from scratch to train and then test. Note if you choose to train the network, we have set a recognition threshold of 80% on the train dataset (you can always change this in our code). This means the training section will only terminate once the recognition rate reaches 80% on the train data. The last time we trained our network, we got to that threshold after 900 Epochs. Once the training is complete, the trained network will be saved as “TrainedNetwork.txt” replacing the old one.
2. Another way you could run our program is to open our Neural Network folder using IntelliJ. Once opened, you can test our program by simply running the main class named “RunProgram.java”. Instructions on how to continue will be displayed which is same as above.

Naïve Bayes:

Our Naïve Bayes classifier was built using python. Therefore, all you have to do is just run the file using “python BAYES_ONLINE_NEW_POPULARITY.py”. All the necessary files required to run it are in the folder.