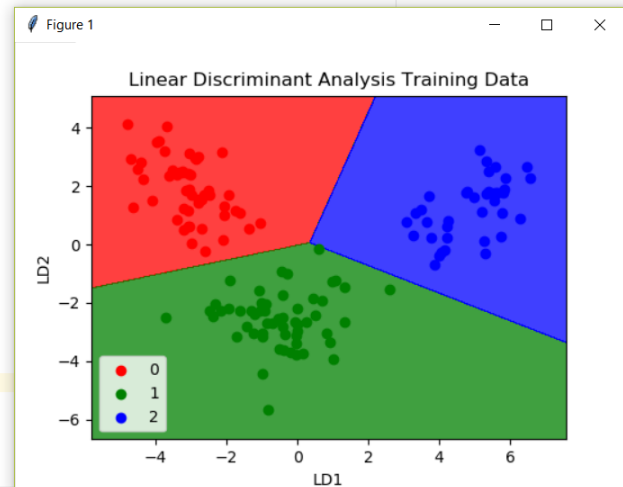


Lab3 D:\Google Drive\UMKC\PhD\Classes\Python\Labs\Lab 3\Lab3

- venv library root
- desktop.ini
- Lab3 Q1.py
- Lab3 Q2 - Linear.py
- Lab3 Q2-RBF.py
- Lab3 Q3.py
- temp.py

External Libraries

```
42 wnl = WordNetLemmatizer() #create lemmatizer
43 lem = [wnl.lemmatize(tkn,pos="v") for tkn in token]
44 print("Lemmatize (verbs): \n",lem,"\n")
45
46 #Try lemmatizing looking for adjectives
47 wnl = WordNetLemmatizer() #create lemmatizer
48 lem = [wnl.lemmatize(tkn,pos="a") for tkn in token]
49 print("Lemmatize (adjectives): \n",lem,"\n")
50
51 #Try lemmatizing looking for adverbs
52 wnl = WordNetLemmatizer() #create lemmatizer
53 lem = [wnl.lemmatize(tkn,pos="r") for tkn in token]
54 print("Lemmatize (adverbs): \n",lem,"\n")
55
56 #Apply bigram on the text
57 #Grouping two words together. This includes special characters like '('
58 bigram = [tkn for tkn in nltk.bigrams(token)]
59 print("Bigram: \n",bigram)
60
61 #Calculate the Bigram Frequency
62 freq_bi=nltk.FreqDist(bigram)
63
64 #Find the 5 most common bigrams
65 bi_common=freq_bi.most_common(5)
66 print("\nThe 5 most common bigrams are:\n",bi_common)
```



Run: Lab3 Q2-RBF Lab3 Q1

"D:\Google Drive\UMKC\PhD\Classes\Python\Labs\Lab 3\Lab3\venv\Scripts\python.exe" "D:\Google Drive\UMKC\PhD\Classes\Python\Labs\Lab 3\Lab3\Lab3 Q1.py"

The confusion matrix for the Linear Discriminat Analysis is:

```
D:\Google Drive\UMKC\PhD\Classes\Python\Labs\Lab 3\Lab3\venv\lib\site-packages\sklearn\discriminant_analysis.py:442: UserWarning: The priors do not sum to 1. Renormalizing
[[ 9  0  0]
 [ 0 14  2]
 [ 0  0 11]]
```