

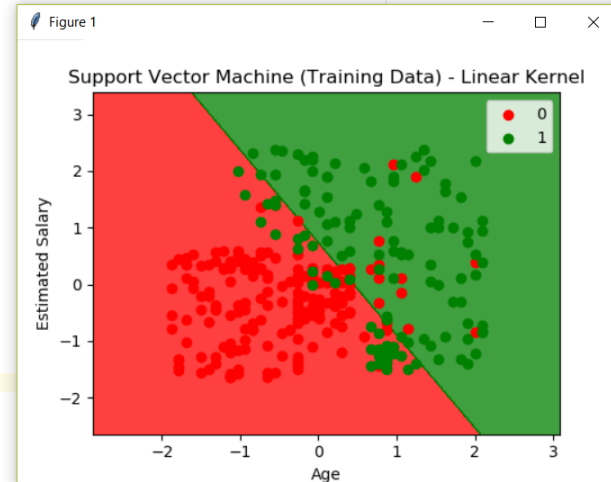
Lab3 [D:\Google Drive\UMKC\PhD\Classes\Python\Labs\Lab 3\Lab3] - PyCharm

File Edit View Navigate Code Refactor Run Tools VCS Window Help

Lab3 Lab3 Q3.py

Project
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 Lab3 Q2 - Linear

```
"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 Q2 - Linear.py"
D:\Google Drive\UMKC\PhD\Classes\Python\Labs\Lab 3\Lab3\venv\lib\site-packages\sklearn\utils\validation.py:475: DataConversionWarning: Data with input dtype int64 was converted to float64 by StandardScale
warnings.warn(msg, DataConversionWarning)
The confusion matrix for the SVM analysis is:
[[51  5]
 [10 14]]
```

62:30 CRLF UTF-8

11:24 PM
3/5/2018