Problem 1:

You are hired by one of the leading news channel CNBE who wants to analyse recent elections. This survey was conducted on 1525 voters with 9 variables. You have to build a model, to predict which party a voter will vote for on the basis of the given information, to create an exit poll that will help in predicting overall win and seats covered by a particular party.

Dataset for Problem: Election_Data.xlsx

1. Read the dataset. Do the descriptive statistics and do null value condition check. Write an inference on it. (5 Marks)

As we start reading data, we come to know there are 9 different attributes

- vote: Party choice: Conservative or Labour
- age: in years
- **economic.cond.national**: Assessment of current national economic conditions, 1 to 5.
- **economic.cond.household**: Assessment of current household economic conditions, 1 to 5.
- Blair: Assessment of the Labour leader, 1 to 5.
- **Hague**: Assessment of the Conservative leader, 1 to 5.
- **Europe**: an 11-point scale that measures respondents' attitudes toward European integration. High scores represent 'Eurosceptic' sentiment.
- **political.knowledge**: Knowledge of parties' positions on European integration, 0 to 3.
- **gender**: female or male.

Lets see data, we need to remove first 'Unnamed: 0' column

Unnamed:	0	vote	age	economic.cond.national	economic.cond.household	Blair	Hague	Europe	political.knowledge	gender
0	1	Labour	43	3	3	4	1	2	2	female
1	2	Labour	36	4	4	4	4	5	2	male
2	3	Labour	35	4	4	5	2	3	2	male
3	4	Labour	24	4	2	2	1	4	0	female
4	5	Labour	41	2	2	1	1	6	2	male

Dataset contains total 1525 records and 9 attributes.

df.shape (1525, 9)

Lets drop missing values if any

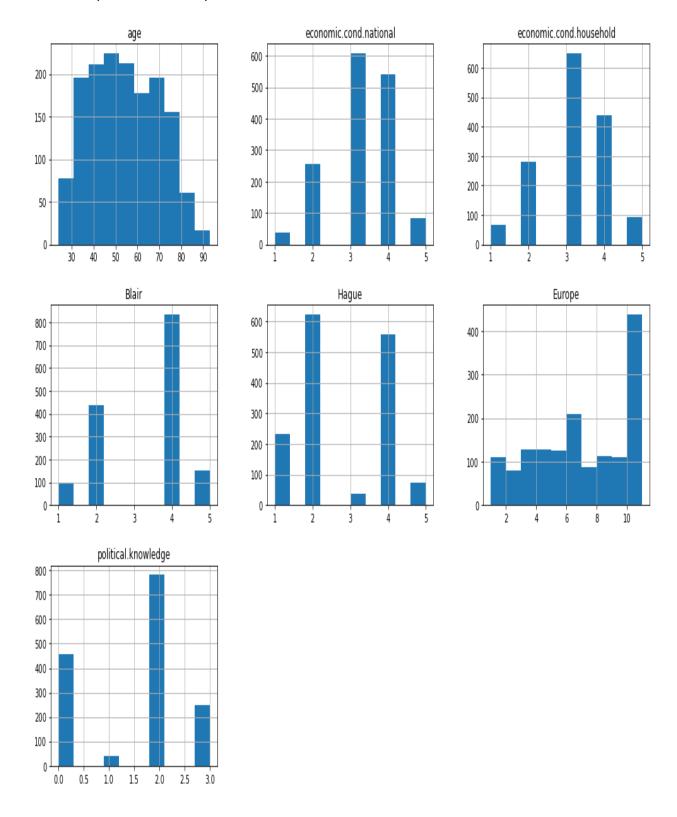
Drop missing values

```
# Are there any missing values ?
df.isnull().sum()
                            0
vote
age
                            0
economic.cond.national
                            0
economic.cond.household
Blair
                            0
Hague
                            0
Europe
political.knowledge
                            0
gender
dtype: int64
```

Lets see datatypes and memory usage

```
df.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1525 entries, 0 to 1524
Data columns (total 9 columns):
    Column
                            Non-Null Count Dtype
   -----
    vote
                            1525 non-null
                                          object
0
                            1525 non-null int64
1
    age
                                          int64
2
   economic.cond.national 1525 non-null
3
   economic.cond.household 1525 non-null int64
4
   Blair
                            1525 non-null int64
5 Hague
                            1525 non-null int64
6
    Europe
                            1525 non-null int64
7
    political.knowledge
                           1525 non-null int64
8
    gender
                            1525 non-null object
dtypes: int64(7), object(2)
memory usage: 107.4+ KB
```

Lets see histogram, as per above analysis most distribution seem having more than one pick and data spread is not normal



Inference

- Dataset contains 1525 records with 9 attributes
- Dataset holds two categorical and seven numerical attributes
- For attribute vote there are two different types of values
 - Conservative
 - Labour
- For attribute gender there are two different types of values
 - Male
 - o Female
- Dataset contains zero missing values
- As per histogram analysis most distribution seem having more than one pick and data spread is not normal

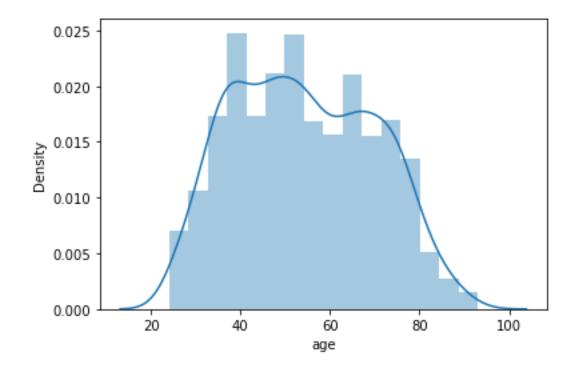
2. Perform Univariate and Bivariate Analysis. Do exploratory data analysis. Check for Outliers. (7 Marks)

Dataset contains no null value records

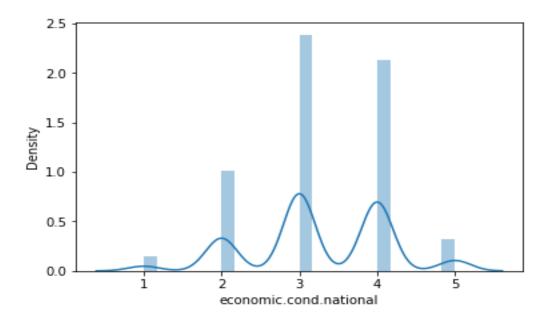
pd.isnull(df).sum()	
vote	0
age	0
economic.cond.national	0
economic.cond.household	0
Blair	0
Hague	0
Europe	0
political.knowledge	0
gender	0
dtype: int64	

Lets start univariate analysis

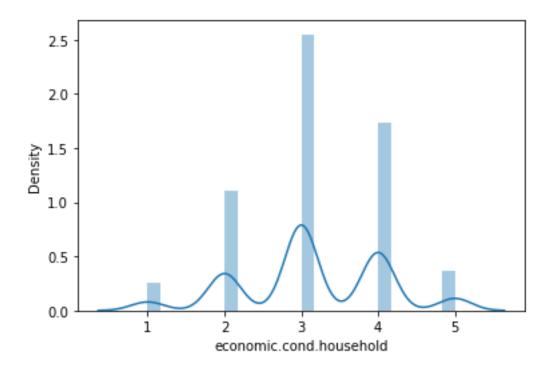
Density VS age: Distribution seem having more than one pick and trying to follow normal distribution



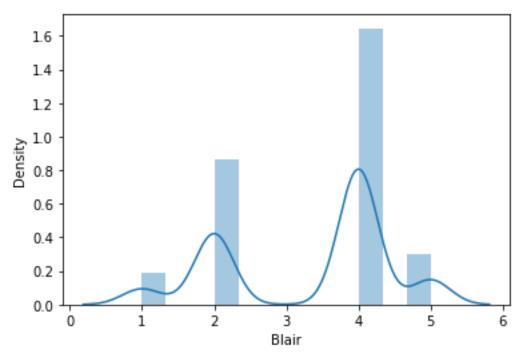
Density VS economic.cond.national: Distribution seem having more than one pick and data spread is not normal



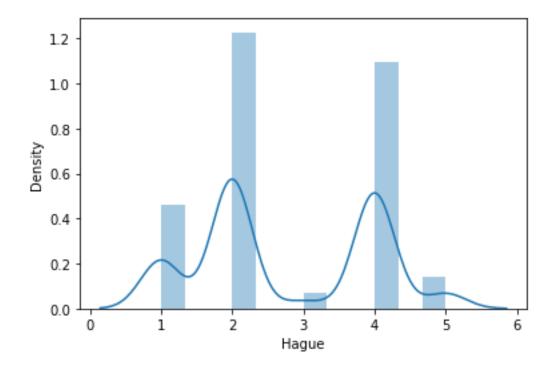
Density VS economic.cond.household: Distribution seem having more than one pick and data spread is not normal



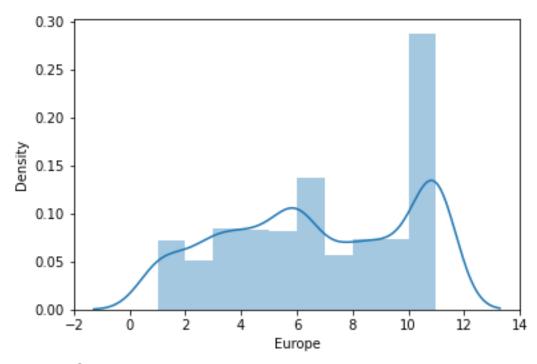
Density VS Blair: Distribution seem having more than one pick and data spread is not normal



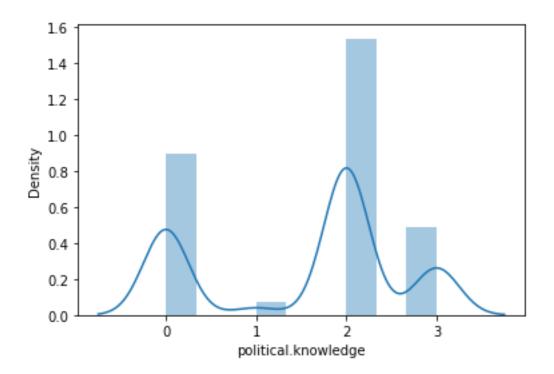
Density VS Hague: Distribution seem having more than one pick and data spread is not normal



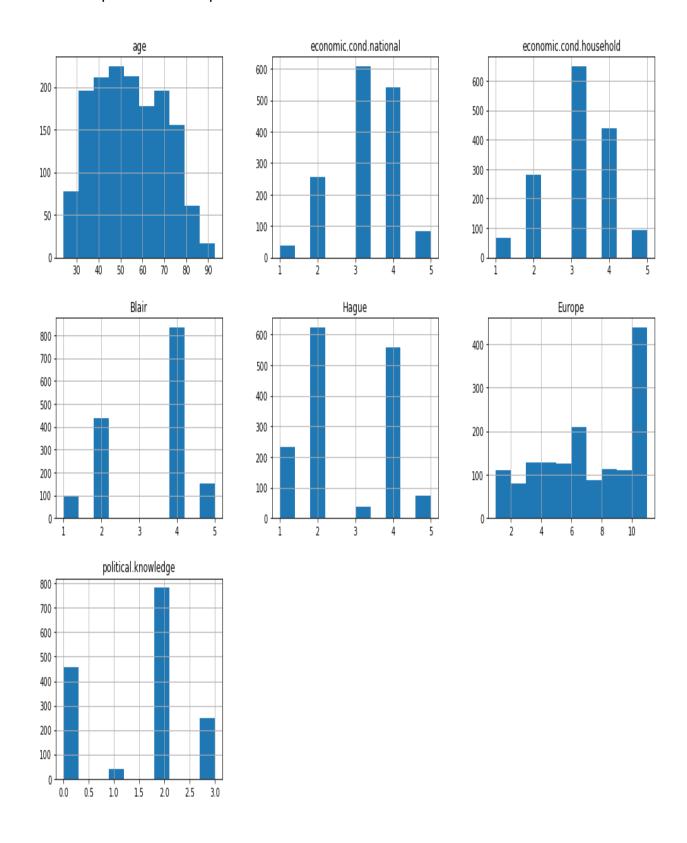
Density VS Europe: Distribution seem having more than one pick and data spread is not normal



Density VS political.knowledge: Distribution seem having more than one pick and data spread is not normal

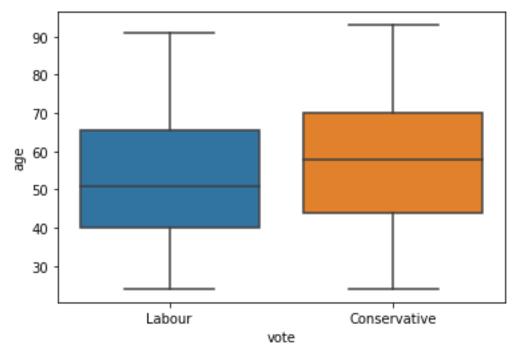


Lets see histogram, as per above analysis most distribution seem having more than one pick and data spread is not normal

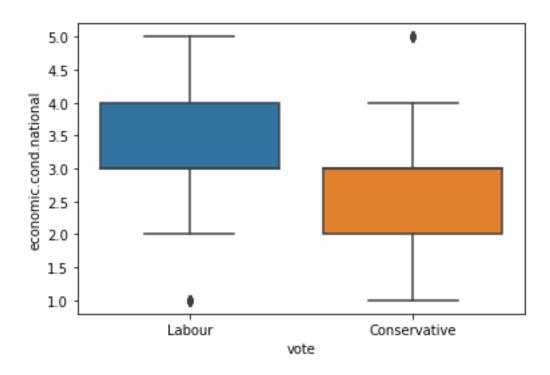


Bivariate Analysis

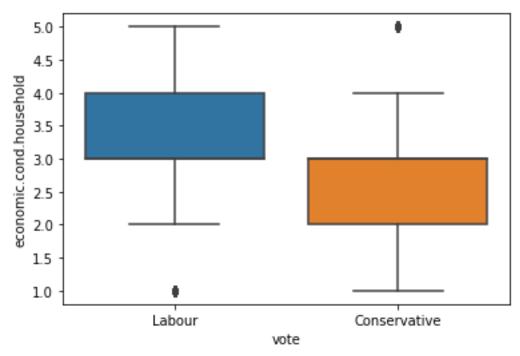
Vote VS age: new generation likes labour party more than conservative



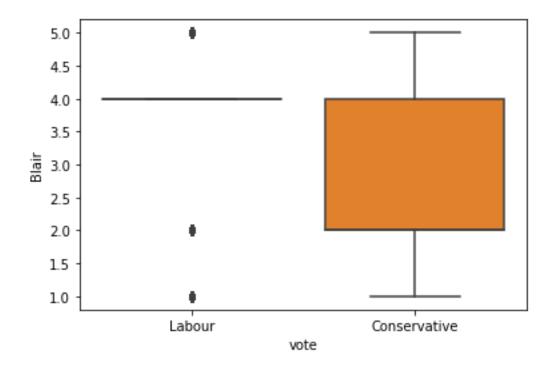
Vote VS Economic condition national: labour party hold good amount of high economic national condition followers compare to conservative party



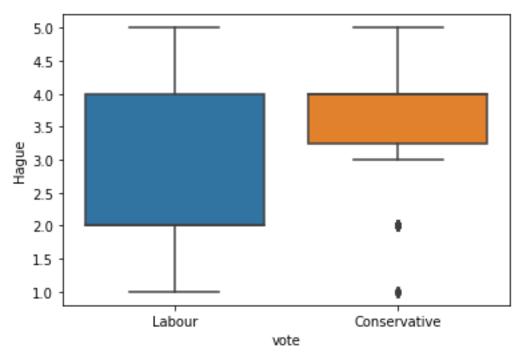
Vote VS Economic condition household: labour party hold good amount of high economic household condition followers compare to conservative party



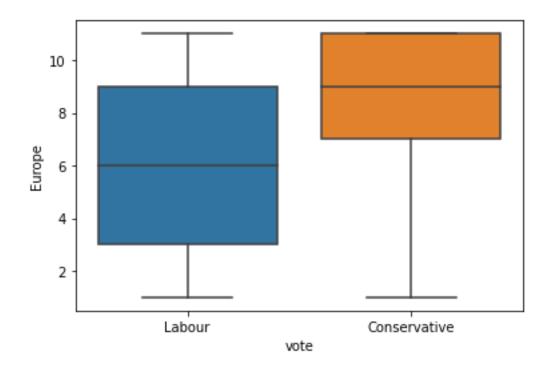
Vote VS Blair: Followers of labour party highlight blair at 4 but conservative party between 2 to 4



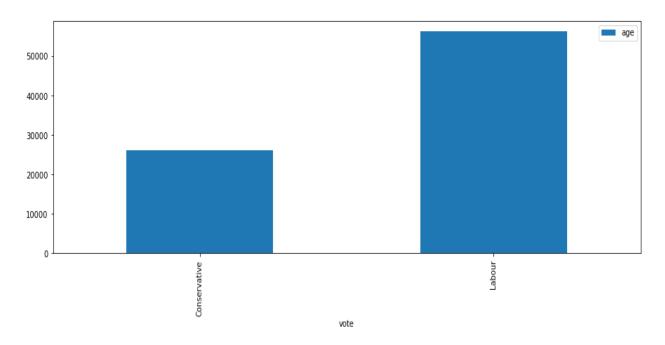
Vote VS Hague: Followers of labour party highlight hague between 2 to 4 but conservative party between 3.5 to 4



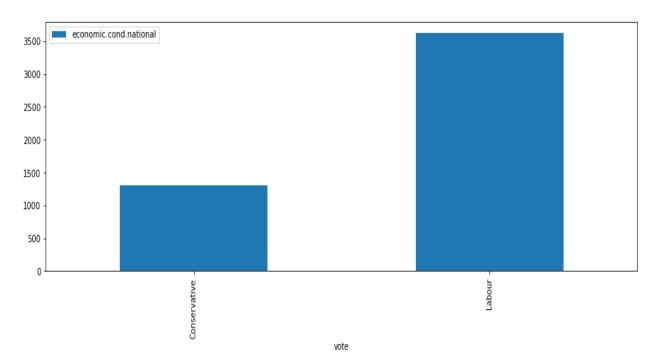
Vote VS Europe: Followers of labour party highlight high variation 'Europe integration' but conservative party hold high interest compare to labour



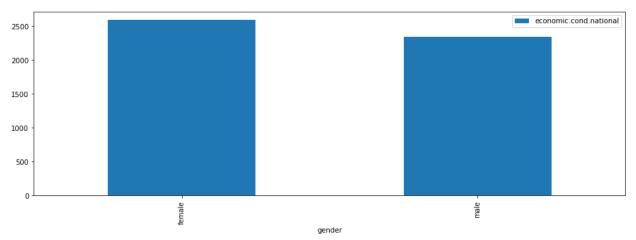
Age VS Vote: Labour party hold high age followers compare to conservative party



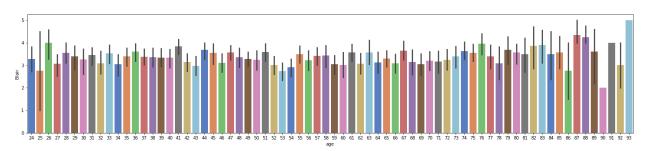
Economical condition national VS vote: Followers of labour party seem holding high economical national condition compare to conservative



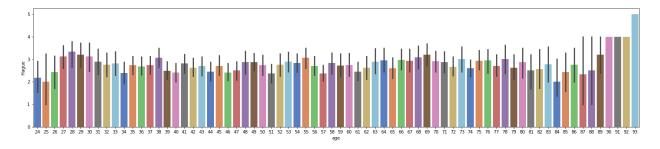
Economical condition household VS gender: Female followers seem holding high economical household condition compare to male followers



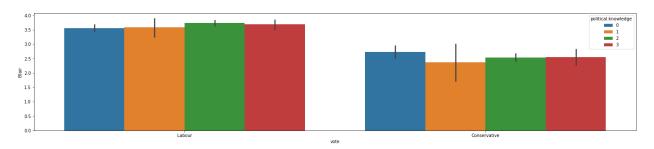
Age VS Blair: Blair seem more popular compare to Hauge in all ages



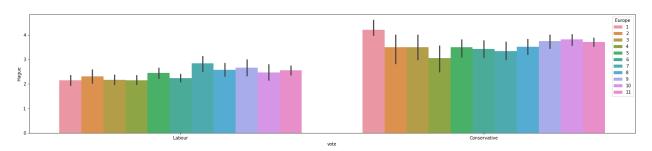
Age VS Blair: Hauge seem less popular compare to Blair in all ages



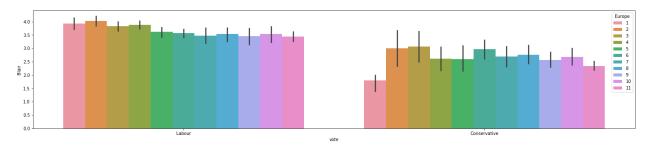
Vote VS Political knowledge: labour party voters seem having high knowledge compare to conservative party



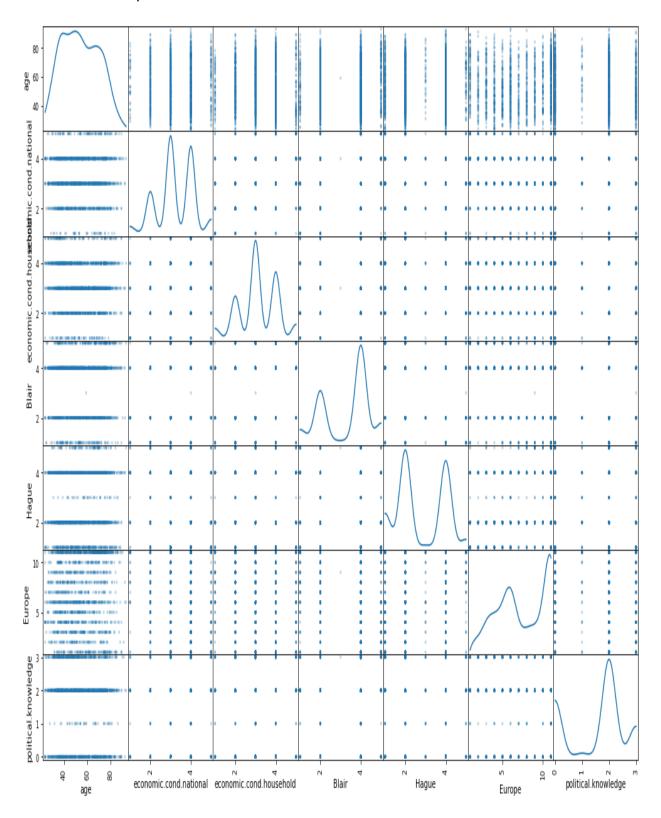
Vote VS Hauge (Hue: Europe integration) It seem conservative party followers seem to be hauge followers interested more in 'europe integration' compare to labour party's hauge followers



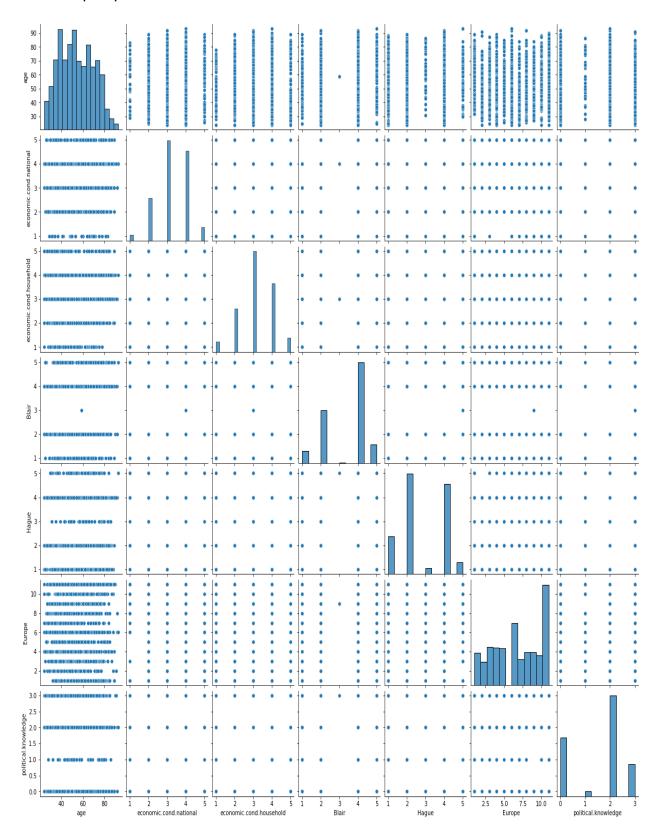
Vote VS Blair (Hue: Europe integration) It seem labour party followers seem to be blair followers interested more in 'europe integration' compare to conservative party's blair followers



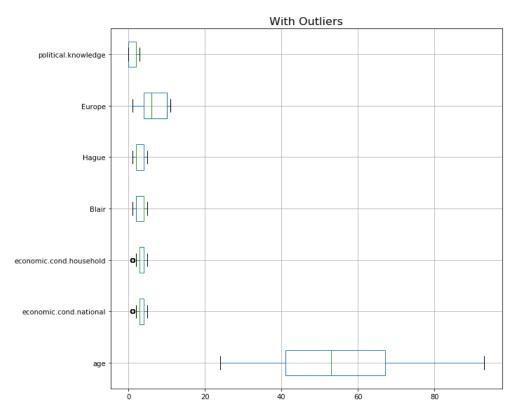
Lets see scatter plot

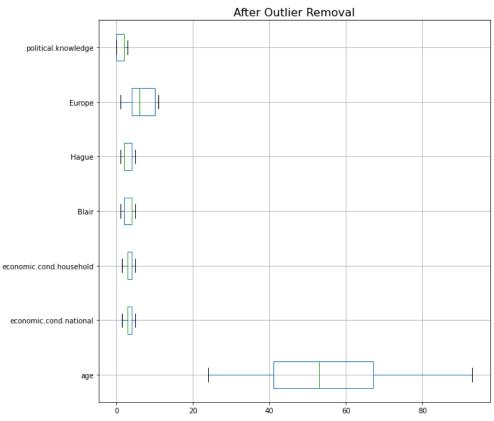


Lets see pair plot



Lets see outliers, before treatment





Lets see unique values for categorical variables

VOTE: 2

Conservative 462 Labour 1063 Name: vote, dtype: int64

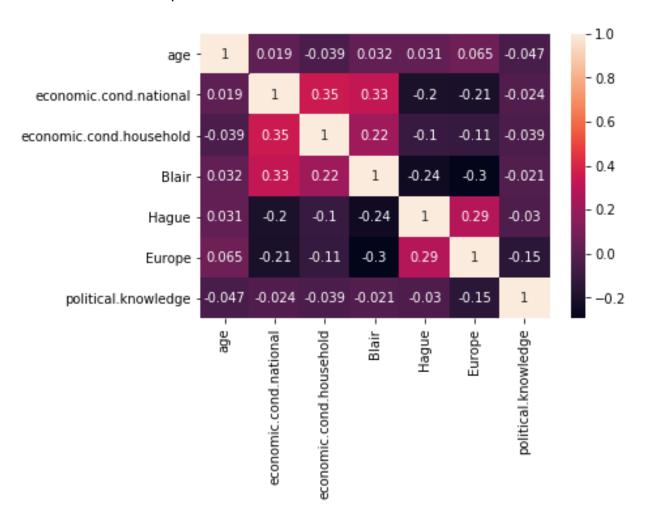
GENDER: 2 male 713 female 812

Name: gender, dtype: int64

Lets check for duplicate records. We have total 8 duplicate records

Before duplicate records treatment: (1517, 9) After duplicate records treatment: (1517, 9)

Lets check correlation plot



Lets see covariance plot

	age	economic.cond.national	economic.cond.household	Blair	Hague	Europe	political.knowledge
age	246.544655	0.258740	-0.568222	0.591818	0.602692	3.344366	-0.793429
economic.cond.national	0.258740	0.777558	0.285454	0.337851	-0.218216	-0.608432	-0.022481
economic.cond.household	-0.568222	0.285454	0.866890	0.236065	-0.115202	-0.346780	-0.038900
Blair	0.591818	0.337851	0.236065	1.380089	-0.352571	-1.146966	-0.027134
Hague	0.602692	-0.218216	-0.115202	-0.352571	1.519005	1.161811	-0.039970
Europe	3.344366	-0.608432	-0.346780	-1.146966	1.161811	10.883687	-0.540915
political.knowledge	-0.793429	-0.022481	-0.038900	-0.027134	-0.039970	-0.540915	1.175961

3. Encode the data (having string values) for Modelling. Is Scaling necessary here or not?(3 pts), Data Split: Split the data into train and test (70:30) (2 pts).

We can see dataset attribute vote & gender contains variations which need to be converted from categorical to numerical

VOTE : 2

Conservative 462 Labour 1063 Name: vote, dtype: int64

GENDER: 2 male 713 female 812

Name: gender, dtype: int64

Vote contains two values 'conservative' and 'labour' only Gender contains two values 'male' and 'female' only

We use manual encoding technique.

We need to do scaling because there are different level available in dataset which need to standardize. We use standard-scaler

	vote	age	economic.cond.national	economic.cond.household	Blair	Hague	Europe	political.knowledge	gender
0	0.659692	-0.716161	-0.278185	-0.148020	0.565802	-1.419969	-1.437338	0.423832	0.936736
1	0.659692	-1.162118	0.856242	0.926367	0.565802	1.014951	-0.527684	0.423832	-1.067536
2	0.659692	-1.225827	0.856242	0.926367	1.417312	-0.608329	-1.134120	0.423832	-1.067536
3	0.659692	-1.926617	0.856242	-1.222408	-1.137217	-1.419969	-0.830902	-1.421084	0.936736
4	0.659692	-0.843577	-1.412613	-1.222408	-1.988727	-1.419969	-0.224465	0.423832	-1.067536
1520	-1.515858	0.812836	1.990670	-0.148020	-1.137217	1.014951	1.291625	1.346290	-1.067536
1521	-1.515858	1.195085	-1.412613	-1.222408	0.565802	1.014951	0.381971	0.423832	-1.067536
1522	0.659692	-1.098410	-0.278185	-0.148020	1.417312	1.014951	-1.437338	0.423832	-1.067536
1523	-1.515858	0.430587	-0.278185	-0.148020	-1.988727	1.014951	1.291625	0.423832	-1.067536
1524	-1.515858	1.258794	-1.412613	-0.148020	-1.137217	1.014951	1.291625	-1.421084	0.936736

Lets Split the data into train and test (70:30)

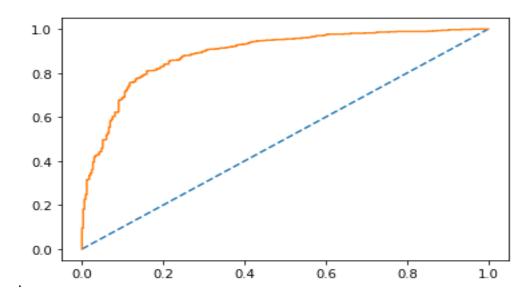
```
# Split X and y into training and test set in 70:30 ratio
from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.30 , random_state=1,stratify=y)
```

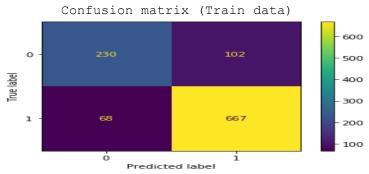
- 4. Apply Logistic Regression and LDA (Linear Discriminant Analysis) (3 pts). Interpret the inferences of both model s (2 pts)
- Logistic regression model

LogisticRegression(max_iter=10000, n_jobs=2, penalty='none', solver='newton-cg', verbose=True)

Logistic regression model accuracy (Train data): 0.8406747891283973

AUC/ROC Curve: AUC: 0.889

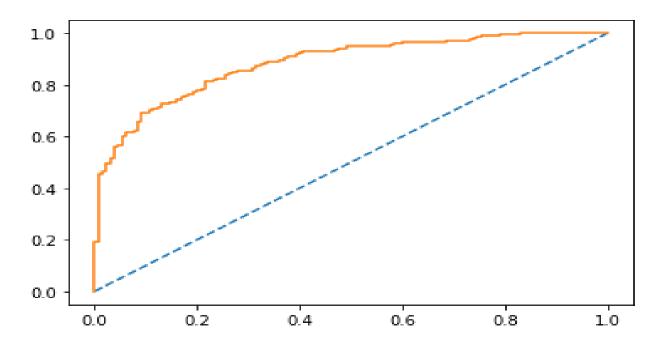




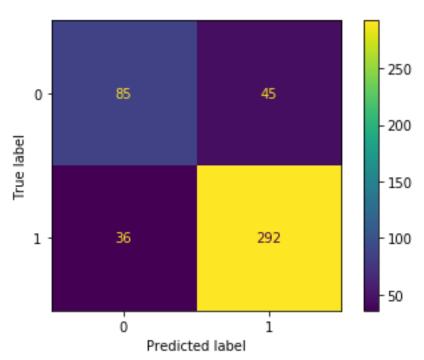
Classification report

	precision	recall	f1-score	support
0 1	0.77 0.87	0.69 0.91	0.73 0.89	332 735
accuracy macro avg weighted avg	0.82 0.84	0.80 0.84	0.84 0.81 0.84	1067 1067 1067

Logistic regression model accuracy (Test data): 0.8231441048034934 AUC/ROC Curve AUC: 0.889



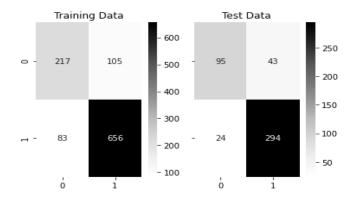
Confusion matrix (Test Data)



Classification report

	precision	recall	f1-score	support
0	0.70	0.65	0.68	130
1	0.87	0.89	0.88	328
accuracy			0.82	458
macro avg	0.78	0.77	0.78	458
weighted avg	0.82	0.82	0.82	458

• LDA Linear Discriminant Analysis



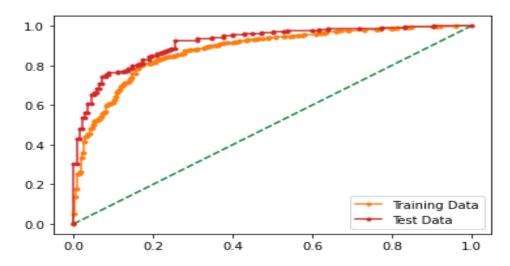
Classification Report of the training data:

	precision	recall	f1-score	support
0	0.72	0.67	0.70	322
1	0.86	0.89	0.87	739
accuracy			0.82	1061
macro avg	0.79	0.78	0.79	1061
weighted avg	0.82	0.82	0.82	1061

Classification Report of the test data:

	precision	recall	f1-score	support
0	0.80	0.69	0.74	138
1	0.87	0.92	0.90	318
accuracy			0.85	456
macro avg	0.84	0.81	0.82	456
weighted avg	0.85	0.85	0.85	456

AUC for the Training Data: 0.877 AUC for the Test Data: 0.914



Inferences

- Logistic regression seem to be working good on both train data 84% and test data 82% accuracy
- Logistic regression seem to be gaining accuracy but losing recall while moving from train data to test data
- LDA seem to be working good on both train data 87% and test data 91% accuracy
- LDA seem to be gaining accuracy but losing recall while moving from train data to test data

5. Apply KNN Model and Naïve Bayes Model(5 pts). Interpret the inferences of each model (2 pts)

KNN

```
Accuracy Score for K=3 is 0.8399122807017544
Accuracy Score for K=5 is 0.8530701754385965
Accuracy Score for K=9 is 0.8552631578947368
```

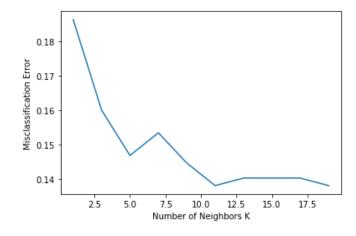
Model score train data

0.85202639019 [[233 89] [68 671]]	79265			
	precision	recall	f1-score	support
0	0.77	0.72	0.75	322
1	0.88	0.91	0.90	739
accuracy			0.85	1061
macro avg	0.83	0.82	0.82	1061
weighted avg	0.85	0.85	0.85	1061

Model score test data

0.85526315789 [[103 35] [31 287]]	47368			
	precision	recall	f1-score	support
0	0.77	0.75	0.76	138
1	0.89	0.90	0.90	318
accuracy			0.86	456
macro avg	0.83	0.82	0.83	456
weighted avg	0.85	0.86	0.85	456

Inference: Knn seem be working good for k=5 with least misclassification error



Naïve bayes

Performance matrix on train data

0.81998114985 [[226 96] [95 644]]	86239			
	precision	recall	f1-score	support
0	0.70	0.70	0.70	322
1	0.87	0.87	0.87	739
accuracy			0.82	1061
macro avg	0.79	0.79	0.79	1061
weighted avg	0.82	0.82	0.82	1061

Performance matrix on test data

```
0.8574561403508771
[[100 38]
 [ 27 291]]
             precision
                         recall f1-score
                                             support
          0
                  0.79
                            0.72
                                      0.75
                                                 138
          1
                  0.88
                            0.92
                                      0.90
                                                 318
                                                 456
                                      0.86
   accuracy
                  0.84
                            0.82
                                      0.83
                                                 456
  macro avg
weighted avg
                  0.86
                            0.86
                                      0.86
                                                 456
```

Inferences

- o knn seem to be working good for k=5 at 85% compare to k=3 at 83%, k=9 at 85%
- knn seem to be working good on both train data 83%(k=3) and test data 82%(k=3) accuracy
- o knn show high precision and high recall while k=3 at 83%
- o knn seem be working good for k=5 with least misclassification error
- Naïve Bayes seem to be working good on both train data 81% and test data 82%
- o Naïve Bayes show high precision and high recall while train and test

6. Model Tuning (2 pts), Bagging (2.5 pts) and Boosting (2.5 pts).

• Adaptive boosting

AdaBoostClassifier(n_estimators=100, random_state=1)

Performance matrix on train data

0.84723523898 [[238 94] [69 666]]	378163			
	precision	recall	f1-score	support
0	0.78	0.72	0.74	332
1	0.88	0.91	0.89	735
accuracy			0.85	1067
macro avg	0.83	0.81	0.82	1067
weighted avg	0.84	0.85	0.85	1067

Performance matrix on test data

0.8187772 [[90 40 [43 285]	64192			
		precision	recall	f1-score	support
	0	0.68	0.69	0.68	130
	1	0.88	0.87	0.87	328
accur	асу			0.82	458
macro	avg	0.78	0.78	0.78	458
weighted	avg	0.82	0.82	0.82	458

Gradient boosting

Performance matrix on train data

0.88659793814 [[262 70] [51 684]]	143299			
	precision	recall	f1-score	support
0	0.84	0.79	0.81	332
1	0.91	0.93	0.92	735
accuracy			0.89	1067
macro avg	0.87	0.86	0.87	1067
weighted avg	0.89	0.89	0.89	1067

Performance matrix on test data

Bagging

Performance matrix with train data

0.99906279287 [[331 1] [0 735]]	72259			
	precision	recall	f1-score	support
				• • •
0	1.00	1.00	1.00	332
1	1.00	1.00	1.00	735
accuracy			1.00	1067
macro avg	1.00	1.00	1.00	1067
weighted avg	1.00	1.00	1.00	1067
merbilicea ava	1.00	1.00	1.00	1007

Performance matrix with test data

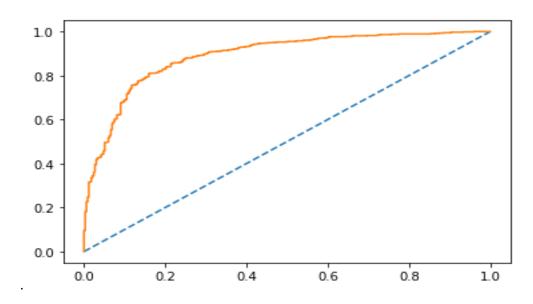
0.80131004366 [[85 45]	81223			
[46 282]]	precision	recall	f1-score	support
0	0.65	0.65	0.65	130
1	0.86	0.86	0.86	328
accuracy			0.80	458
macro avg	0.76	0.76	0.76	458
weighted avg	0.80	0.80	0.80	458

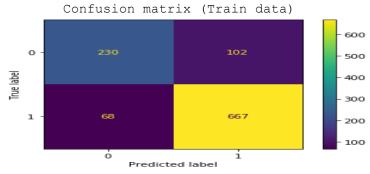
- 7. Performance Metrics: Check the performance of Predictions on Train and Test sets using Accuracy, Confusion Matrix, Plot ROC curve and get ROC_AUC score for each model (4 pts) Final Model Compare all models on the basis of the performance metrics in a structured tabular manner. Describe on which model is best/optimized (3 pts)
- Logistic regression model

LogisticRegression(max_iter=10000, n_jobs=2, penalty='none', solver='newton-cg', verbose=True)

Logistic regression model accuracy (Train data): 0.8406747891283973

AUC/ROC Curve: AUC: 0.889



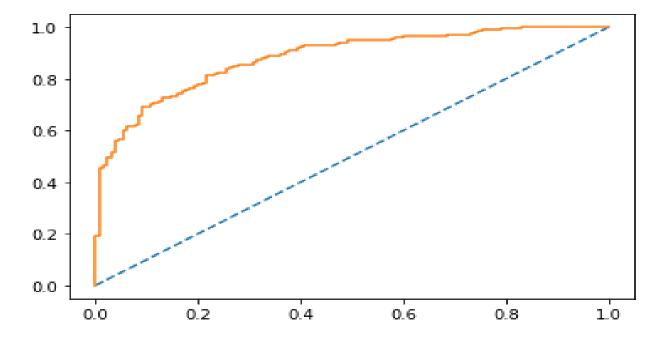


Classification report

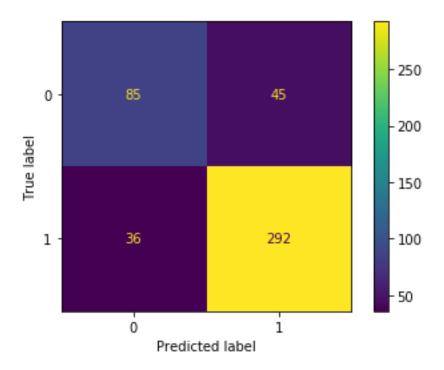
	precision	recall	f1-score	support
0	0.77	0.69	0.73	332
1	0.87	0.91	0.89	735
accuracy			0.84	1067
macro avg	0.82	0.80	0.81	1067
weighted avg	0.84	0.84	0.84	1067

Logistic regression model accuracy (Test data): 0.8231441048034934

AUC/ROC Curve AUC: 0.889



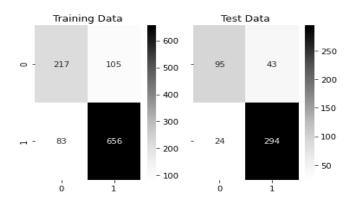
Confusion matrix (Test Data)



Classification report

	precision	recall	f1-score	support
0	0.70	0.65	0.68	130
1	0.87	0.89	0.88	328
accuracy			0.82	458
macro avg	0.78	0.77	0.78	458
weighted avg	0.82	0.82	0.82	458

• LDA Linear Discriminant Analysis



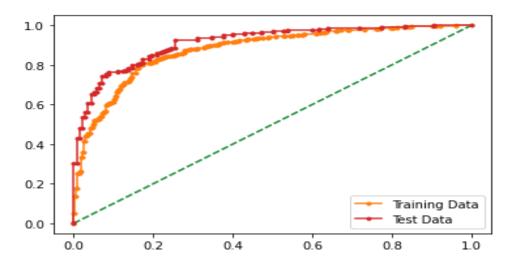
Classification Report of the training data:

	precision	recall	f1-score	support
0	0.72	0.67	0.70	322
1	0.86	0.89	0.87	739
accuracy			0.82	1061
macro avg weighted avg	0.79 0.82	0.78 0.82	0.79 0.82	1061 1061
weignted avg	0.82	0.82	0.82	16

Classification Report of the test data:

	precision	recall	f1-score	support
0	0.80	0.69	0.74	138
1	0.87	0.92	0.90	318
accuracy			0.85	456
macro avg	0.84	0.81	0.82	456
weighted avg	0.85	0.85	0.85	456

AUC for the Training Data: 0.877 AUC for the Test Data: 0.914



KNN

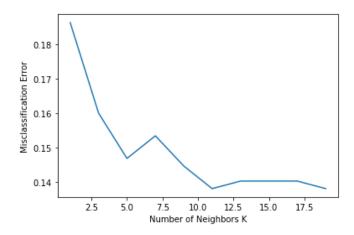
```
Accuracy Score for K=3 is 0.8399122807017544
Accuracy Score for K=5 is 0.8530701754385965
Accuracy Score for K=9 is 0.8552631578947368
```

Model score train data

0.85202639019 [[233 89] [68 671]]	979265			
	precision	recall	f1-score	support
0	0.77	0.72	0.75	322
1	0.88	0.91	0.90	739
accuracy			0.85	1061
macro avg	0.83	0.82	0.82	1061
weighted avg	0.85	0.85	0.85	1061
Model score	test data			
0.8552631578	947368			

0.855263157 [[103 35] [31 287]]		47368			
-		precision	recall	f1-score	support
	0	0.77	0.75	0.76	138
	1	0.89	0.90	0.90	318
accurac	y			0.86	456
macro av	/g	0.83	0.82	0.83	456
weighted av	/g	0.85	0.86	0.85	456

Inference: Knn seem be working good for k=5 with least misclassification error



Naïve bayes

Performance matrix on train data

```
0.8199811498586239
[[226 96]
[ 95 644]]
             precision recall f1-score support
                 0.70
                          0.70
                                   0.70
                                             322
                 0.87
                          0.87
                                   0.87
                                             739
                                   0.82
                                            1061
   accuracy
macro avg 0.79
weighted avg 0.82
                                   0.79
                          0.79
                                            1061
                          0.82
                                   0.82
                                            1061
```

Performance matrix on test data

0.85745614035	08771			
[[100 38]				
[27 291]]				
[27 232]]	nnocicion	nocol1	£1 ccono	suppost
	precision	recarr	f1-score	support
0	0.79	0.72	0.75	138
1	0.88	0.92	0.90	318
_				
			0.00	
accuracy			0.86	456
macro avg	0.84	0.82	0.83	456
weighted avg	0.86	0.86	0.86	456

Comparison of all four models performance matrix

	L	ogit		LI	DA		ki	NN		Na	iive B	ayes
Train data score	84	%		87	′%		83	3%		819	%	
Test data score	82%		82	82%		85%		82%				
Performance		Α	Р		Α	Р		Α	Р		Α	Р
Matrix (Train Data)	0	.77	.69	0	.77	.69	0	.77	.72	0	.70	.70
	1	.87	.91	1	.87	.91	1	.88	.91	1	.87	.87
Performance		Α	Р		Α	Р		Α	Р		А	Р
Matrix (Test Data)	0	.70	.65	0	.70	.65	0	.77	.75	0	.79	.72
	1	.87	.89	1	.87	.89	1	.89	.90	1	.88	.92

8. Based on your analysis and working on the business problem, detail out appropriate insights and recommendations to help the management solve the business objective.

Feedback

Labour party specific

- Having good economical national condition indicate, chance of being labour party follower is high
- Having good economical household condition indicate, chance of being labour party follower is high
- Labour party follower seem to be less interested in Europe integration comparative to conservative party and with high deviation among follower
- Labour party follower seems to be holding high political knowledge compare to conservative party followers

Conservative party specific

- More the age, chance of being conservative party follower is high
- Conservative party follower seem to be highly interested in Europe integration comparatively labour party and with less deviation among follower
- Conservative party follower seems to be holding low political knowledge compare to labour party followers

Recommendations

- Dataset seem biased towards labour party's 1063 records compare to 462 records of conservative party, kindly check with business if balanced data is available for analysis.
- o Blair seems more popular compare to hauge in all age group
- o Blair's followers seem to be not in favour of Europe integration
- Hauge's followers seem to be in favour of Europe integration
- Economical condition household and economical condition national seem to highly positively correlated
- Blair's followers seem to be having good economical condition household and economical condition national

Problem 2:

In this particular project, we are going to work on the inaugural corpora from the nltk in Python. We will be looking at the following speeches of the Presidents of the United States of America:

- 1. President Franklin D. Roosevelt in 1941
- 2. President John F. Kennedy in 1961
- 3. President Richard Nixon in 1973
- Find the number of characters, words and sentences for the mentioned documents. 3
 Marks

(Hint: use .words(), .raw(), .sent() for extracting counts)

- Remove all the stopwords from all the three speeches. 3 Marks
- Which word occurs the most number of times in his inaugural address for each president? Mention the top three words. (after removing the stopwords) 3 Marks
- Plot the word cloud of each of the speeches of the variable. (after removing the stopwords) –
 3 Marks [refer to the End-to-End Case Study done in the Mentored Learning Session]

Code Snippet to extract the three speeches:

import nltk nltk.download('inaugural') from nltk.corpus import inaugural inaugural.fileids() inaugural.raw('1941-Roosevelt.txt') inaugural.raw('1961-Kennedy.txt') inaugural.raw('1973-Nixon.txt')

Important Note: Please reflect on all that you have learned while working on this project. This step is critical in cementing all your concepts and closing the loop. Please write down your thoughts here.

1. Find the number of characters, words and sentences for the mentioned documents. – 3 Marks (Hint: use .words(), .raw(), .sent() for extracting counts)

Number Of Total Characters: 7262

Number Of Total Words: 1338 Number Of Total Sentence: 38

Number Of Total Characters: 7336

Number Of Total Words: 1365 Number Of Total Sentence: 27

Number Of Total Characters: 9646

Number Of Total Words: 1802 Number Of Total Sentence: 51

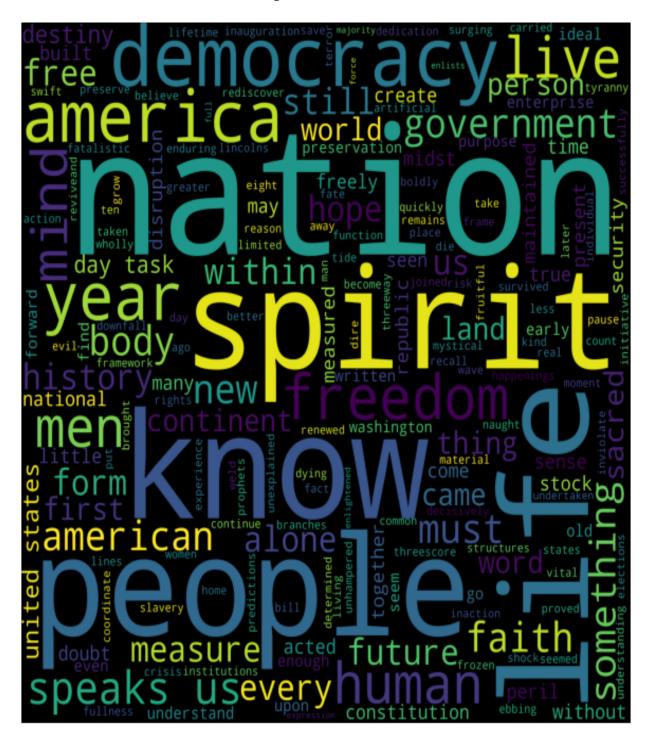
2. Remove all the stopwords from all the three speeches. – 3 Marks Please check all three speeches after removing stopwords ***** Roosevelt Speech ************** national day inauguration since 1789 people re... washingtons day task people create weld togeth... lincolns day task people preserve nation disru... day task people save nation institutions disru... us come time midst swift happenings pause mome... Name: 0, dtype: object ****** Kennedy Speech *************** vice president johnson mr speaker mr chief jus... world different man holds mortal hands power a... 1 dare forget today heirs first revolution let w... let every nation know whether wishes us well i... much pledge Name: 0, dtype: object ***** Nixon Speech ***************** mr vice president mr speaker mr chief justice ... met four years ago america bleak spirit depres... meet today stand threshold new era peace world 2 central question us shall use peace let us res... let us resolve become time great responsibilit...

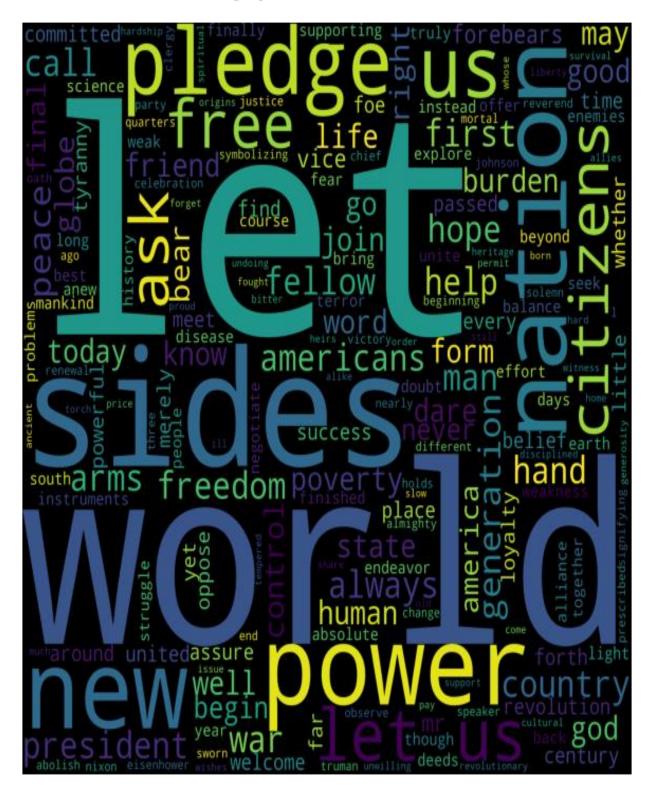
Name: 0, dtype: object

3.	Which word occurs the most number of times in his inaugural address for each president? Mention the top three words. (after removing the stopwords) – 3 Marks	
	************* Ro Top three words:	osevelt Speech ***************
	******* Ke Top three words:	nnedy Speech ****************
	************** Ni Top three words:	xon Speech *****************

4. Plot the word cloud of each of the speeches of the variable. (after removing the stopwords) – 3 Marks [refer to the End-to-End Case Study done in the Mentored Learning Session]

************ Roosevelt Speech *************





************ Nixon Speech ***************

