Quran Pak Data Analysis

- 1. The dataset represents the numerical values extracted from the Holy Book Quran Majeed. The dataset hase 11 Columns and 6236 Rows. Further description of each column is mentioned below:
 - a. surah_no. It represents the Surah No and the total surahs in the Holy Book are 114.
 - b. surah_name_roman. This columns contains the name of the Holy Surah in roman langaue
 - c. ayah_no_surah. In each Sura there are specific numbers if Ayah. This column shows the specifi ayah number in given surah.
 - d. ruko_no. This is the specifi distrubution of Holy Quran where the Quran is distrubuted in many Ruko for better understanding and reference.
 - e. juz_no. This is the specifi distrubution of Holy Quran where the Quran is distrubuted in many Ruko for better understanding and reference
 - f. manzil_no. This is the specifi distrubution of Holy Quran where the Quran is distrubuted in many Ruko for better understanding and reference.
 - g. total_ayah_surah. It represents the aya of number In a Sorah.
 - h. total_ayah_quran. In the Holy Quran total 6236 Ayas are held this column will show the number of aya.
 - i. place_of_revelation. The Holy Quran was revealed in the Mecca and Medinah on the Holy Prophet Muhammad SAW, in this column the place named will be mentioned against each surah where it was revealed.
 - j. sajdah_no. In Total Quran Pak has 15 x Sajdah it will sho wether the column has sajda or not.
 - k. sajdah_no. It will show the sequence of sajdah in the Holy Book.

2. Statistical Conclusions:-

а.

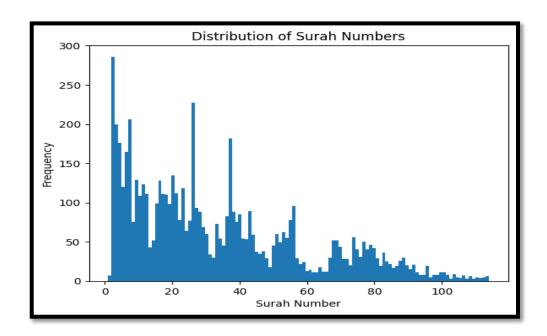
Ser	Column	Non-Null Coun	t Dtype
0	surah_no	6236 non-null	int64
1	surah_name_roman	6236 non-null	object
2	ayah_no_surah	6236 non-null	int64
3	ruko_no	6236 non-null	int64
4	juz_no	6236 non-null	int64
5	manzil_no	6236 non-null	int64
6	total_ayah_surah	6236 non-null	int64
7	total_ayah_quran	6236 non-null	int64
8	place_of_revelation	6236 non-null	object
9	sajdah_no	15 non-null	float64
10	sajdah_no.1	6236 non-null	int64

b. Details of the dataset is as shown in the table below:-

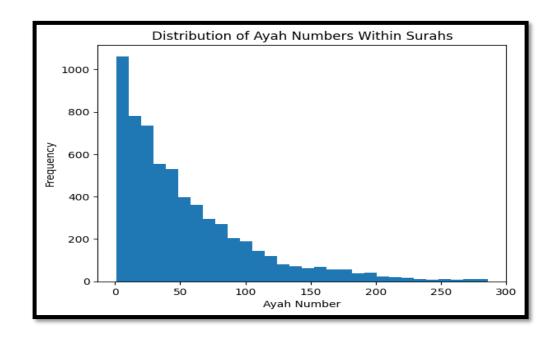
Index	surah_no	ayah_no_surah	ruko_no	juz_no	manzil_no	total_ayah_surah	total_ayah_quran	sajdah_no	sajdah_no.1
count	6236	6236	6236	6236	6236	6236	6236	15	6236
mean	33.51	53.50	313.19	18.479	4.52	106.01	6236	8	0.01
std	26.46	50.46	155.39	8.6101	2.05	69.49	0	4.47	0.44
min	1	1	1	1	1	3	6236	1	0
25%	11	16	190	12	3	52	6236	4.5	0
50%	26	38	325	19	5	93	6236	8	0
75%	51	75	455	26	7	135	6236	11.5	0
max	114	286	556	30	7	286	6236	15	15

3. Graphical Representations.

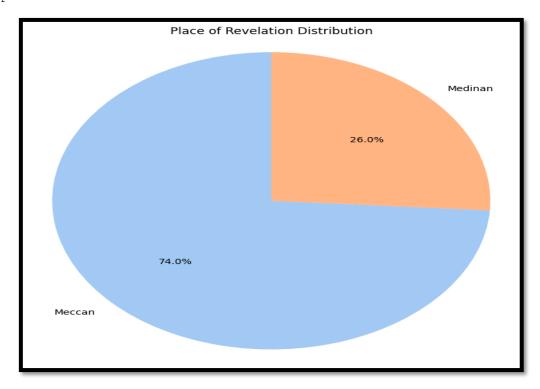
a. The graph Distribution of Surah Number shows, the distrubtion of the Surah Numbers of the Holy Book which shows that in the start the Surah are lenghty and at the end they are smaller in size. Morover the data is skewed towards the left, and doesn't follow the normal distribution.



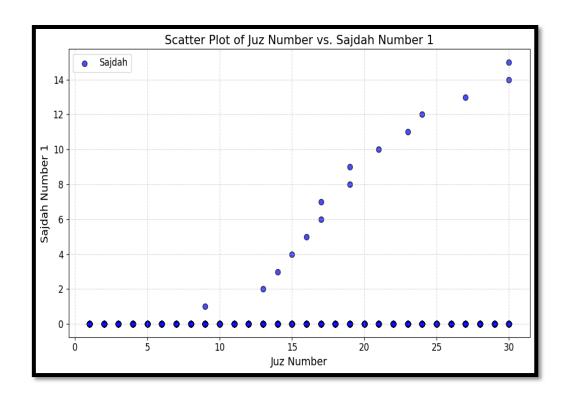
b. The graphs below show the distribution of Aya numbers within surahs which states that most of the Surah are having less aya numbers and fewer have ayahs more than 150.



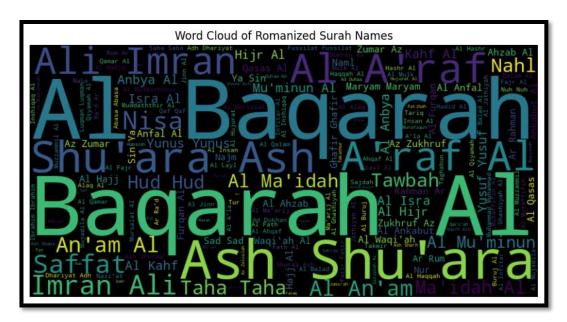
c. Distribution of the Meccan and Medina Sorah Are shown in the pie chart belows:-



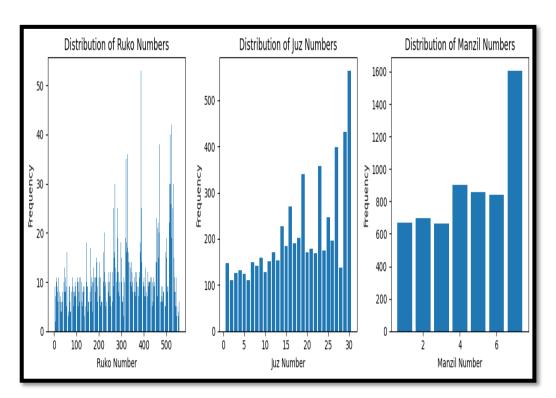
d. The chart shows all the distribution of the 15 \times Sajdahs along complete 30 Juz of the Holy Quran.



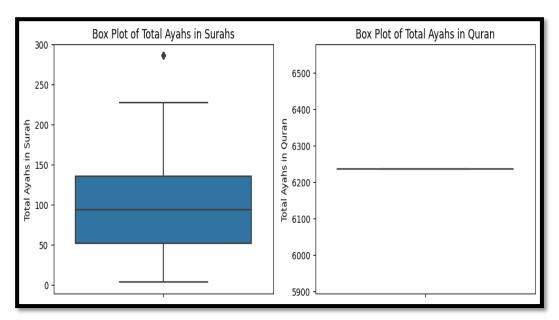
e. The Graph below show the wordcloud of all the surah names, their weightages in the book.



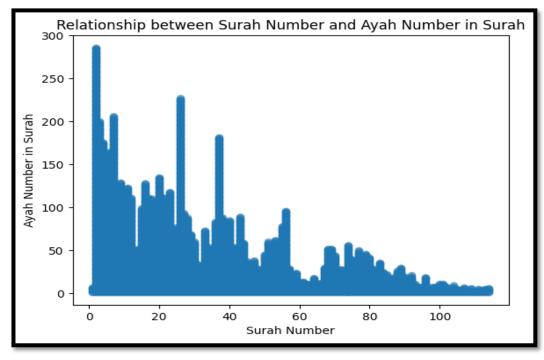
f. The graph below shows the distribution of the Ruko, Juz and Manzil Numbers which are skewed towards the right side. The distrubutions further adds that the values in the laset of each graphs are larger in length and shorter in the start.



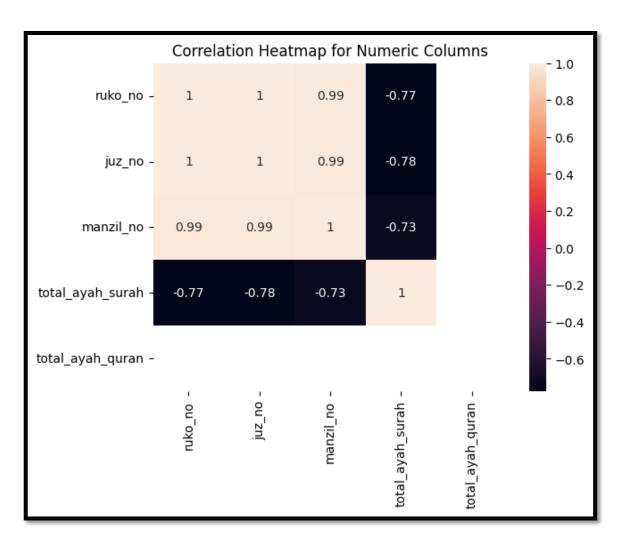
g. The chart below shows the box plots of the Total Ayah in Surah which shows that there are outliers in the column of Ayah in normal The column doesn't follow distrubtuion highlights that the ayah are not normally distributed different surah have different Ayahs. However the mean is 90 and 75 Quartile is 140 and 25 Quartile is 50. Moreover the box plot of the Total Ayah in the Quran is same that is 6236 Ayah in the Complete Holy Book.



h. The relationship of the ayah number in surah and surah number states that the lesser the surah number the more the ayah number hence they have negative correlation with each other.



i. The Heatmap represent the corr values of all the features with respect to each other. The conclusion is that ruko number is postivey correlated with huzz no, manzil no, and negatively corr with total ayah in surah. The Juz no is positively corr with ruko no, anzil no and negatively corr with total ayah in surah. The Manzil is postively corr with ruko no, juz no and negativly corr with total ayah in surah. Total Ayah in Quran is completely negatively corr with the ruko no, juz no, and manzil no.



j. The pair plots of the features with respect to each other is as shown in the graph below. And as mentioned earlier most of the features are postively corr with each other except total ayah in sorah.

