# EDA On Amadalavalasa-Assembly Election

Members of State Legislative Assembly, are elected directly by voting, from a set of candidates who stands in their respective constituencies. Every adult citizen of India can vote only in their constituency.

Brief on Amadalavalasa AC 2019 Dataset :

- The Amadalavalasa assemply dataset has [AC_NO, PART_NO, SECTION_NO, SLNOINPART, AGE, C_HOUSE_NO, C_HOUSE_NO_V1, FM_NAME_EN, LASTNAME_EN, FM_NAME_V1, RLN_FM_NM_V1, RLN_L_NM_V1, EPIC_NO, DOB, GENDER, MOBILE_NO, ADRESS_E, ADRESS_M, PS_NAME_EN, PS_NAME_M] Features

- Amadalavalasa Assemply has the total number of (195585) voters.

- Features has some null values that had to be cleaned. Mainly (**EPIC_NO-voters unique ids)** I had removed null values and duplicated. since **Epic_no** is only unique identifier of voters(dataset)

- The average Age of voters is (44 years old).

GENDER	Average AGE of Mean
Female	45
Male	44
Others	39
Transgender	36

Analysis based on Ages of the Voters :

Age_wise_Voters
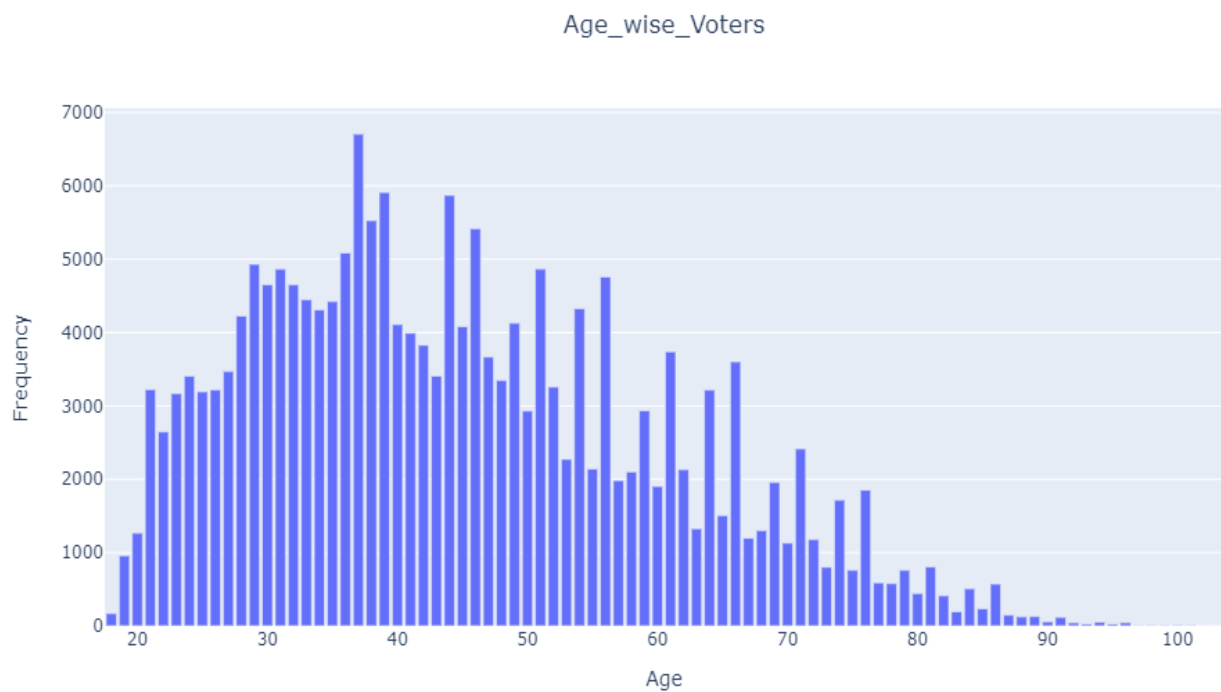
- "Age" has most voters concentrated in the categories of 37, 39 and 44.
- Observations falls on 37 of ages have the large number of voters
- Only a few observations made for the ages after 75.
- And here we can see 18 to 20 age voters has minimal observations.

Analysis based on Age Group of the Voters :


Total_number_Elector_by_Age_group
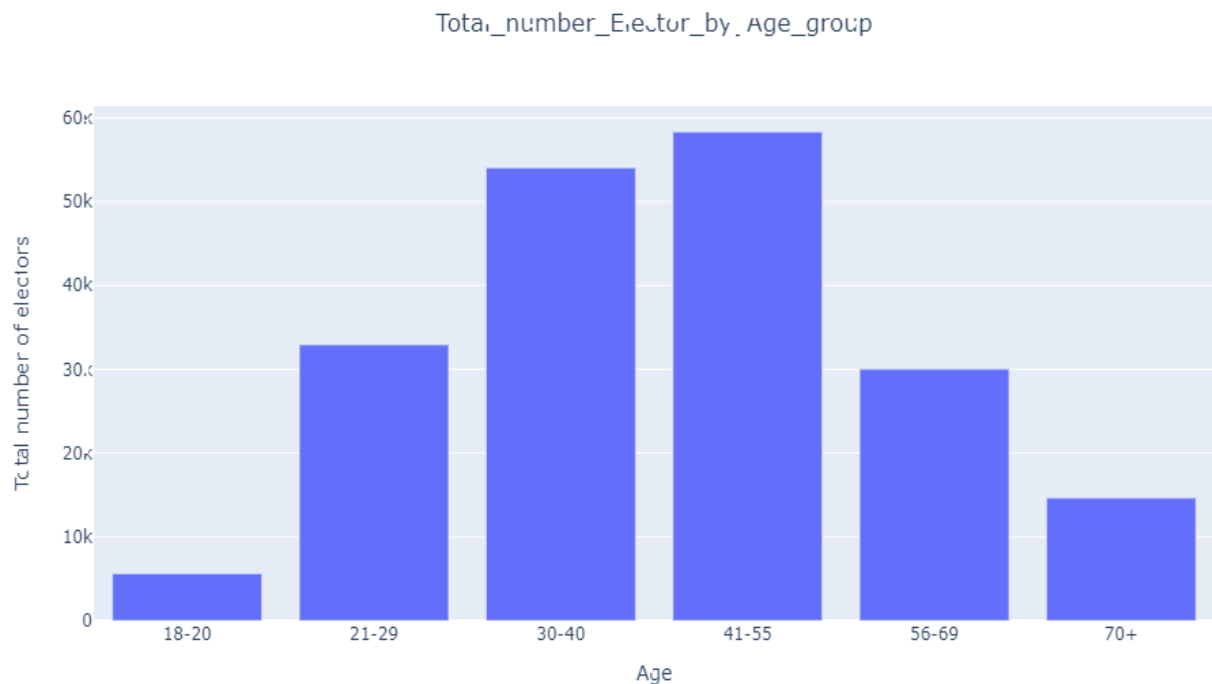
- As we can see here grouped the ages with their respective observations.
- This has vote count of each Age group.
- "Age group" has most values concentrated in the categories 41-55, and 30-40 ages.
- The Age group of (41-55) has the most of the values (less than 57k)
- Only a few (falls under 6k electors) observations made for the categories [18-20] for the **new voters**.

How many of new electors voters :

AGES	F	M	O	T	Total_voters
18-20	2487	3131	0	1	5619

- As we can see 5619 new voters in 2019 AP_assemply election.

Analysis based on Genders:
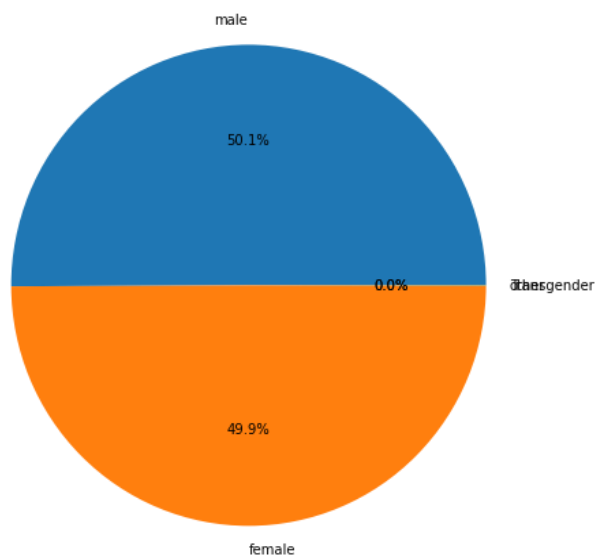
Gender wise Vote Share	
Female	**97921**
Male	**97618**
Others	**36**
Transgender	**5**

- Based on above plot we can say that both male and female have few minimum differences.

Analysis based on Genders by Age Group:

Gender Wise Voters in Amadalavalasa
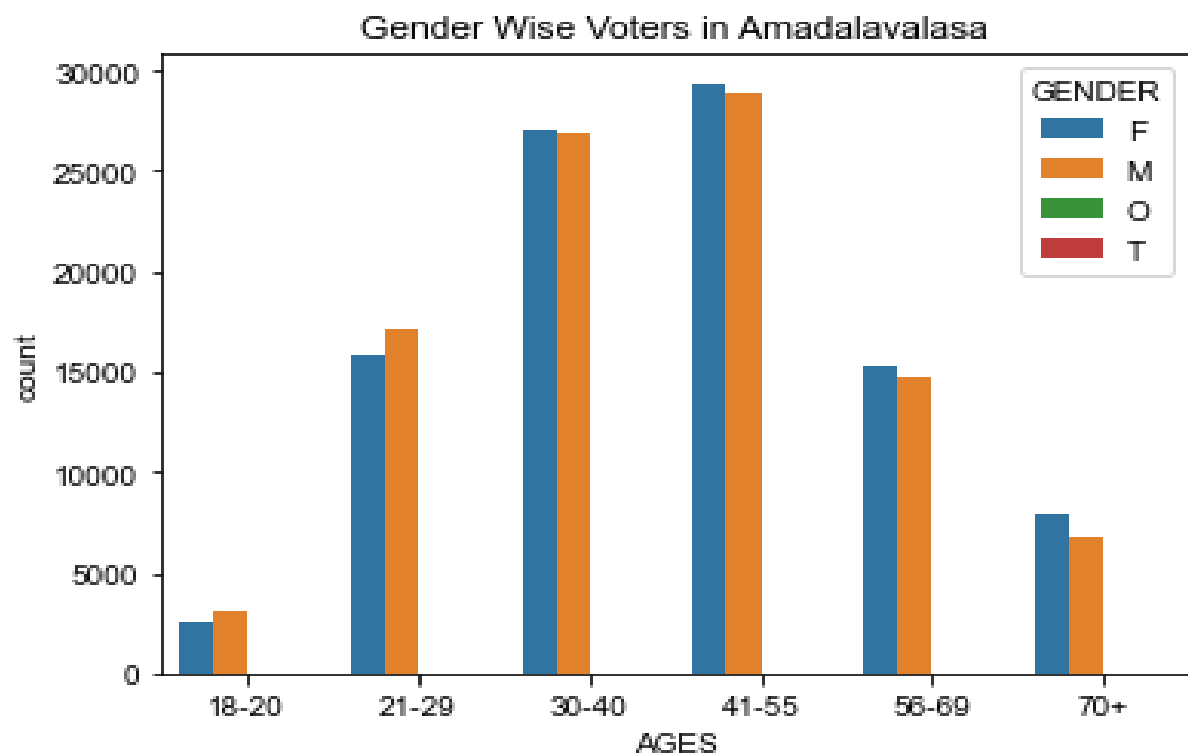
| AGES	Female	Male	Others	Transgender
18-20	2487	3131	0	1
21-29	15825	17086	8	1
30-40	27064	26962	14	2
41-55	29356	28953	12	0
56-69	15317	14716	1	1
70+	7872	6770	1	0

- Based on above plot we can say that falls between age 41-55 group has highest voters.
- between age 41-55 group has more male voters than female voters.
- between age 21-30 group has more female voters than male voters.
- As we can see in the graph With in the age group of 18-20 has minimal voters. Its also consider has the **New Voters.**
- 70+ Ages voters has more male voters.

Analysis based on ADDRESS_E wise voters :
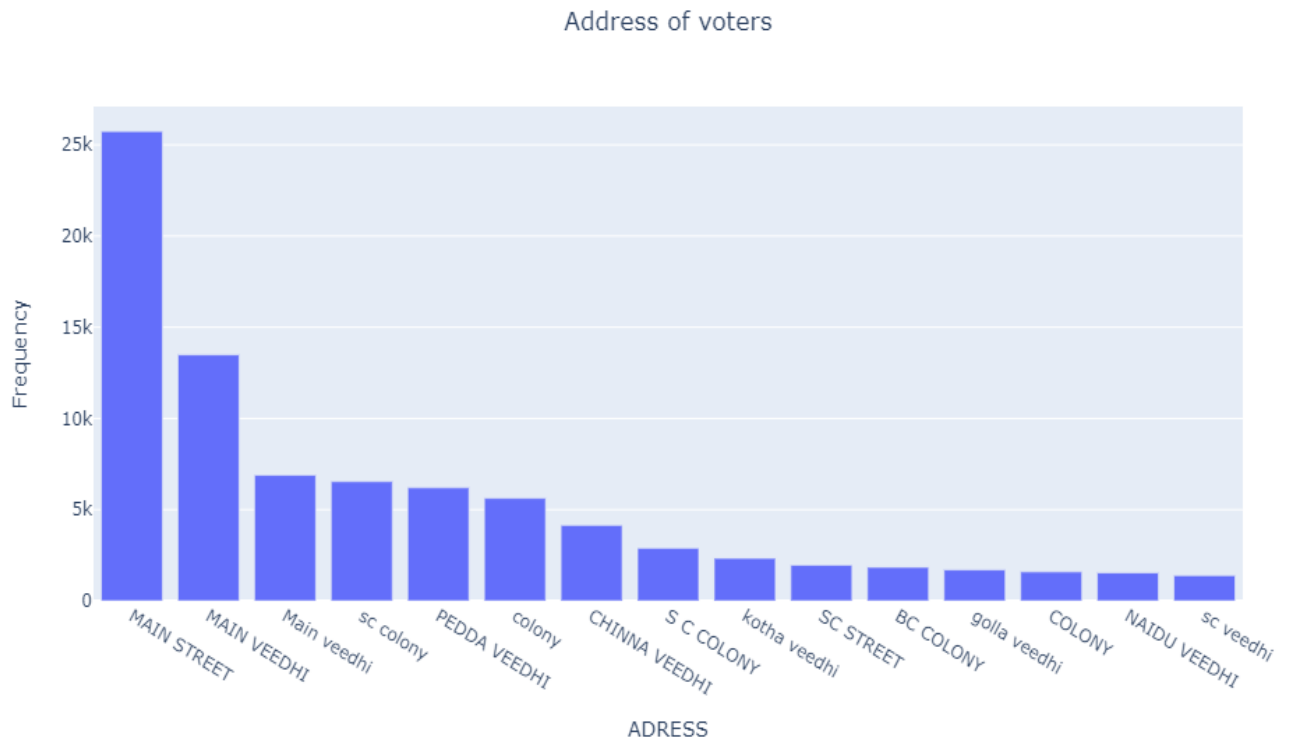
Address of voters

- As we can see here grouped the ages with their respective observations in ascending order.

- This has unique vote count of 488 on ADDREES_E with their respective address.

- "Gender group" has most values concentrated in the categories with Main Street(26k votes), and Mani veedhi(14k votes).

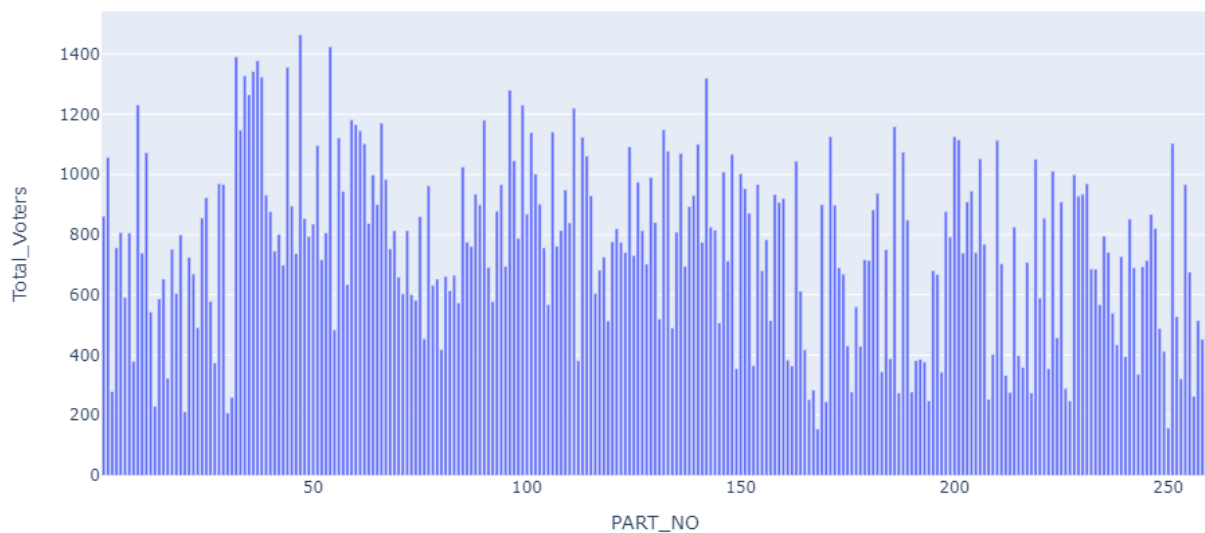## Analysis based on Genders wise Address:
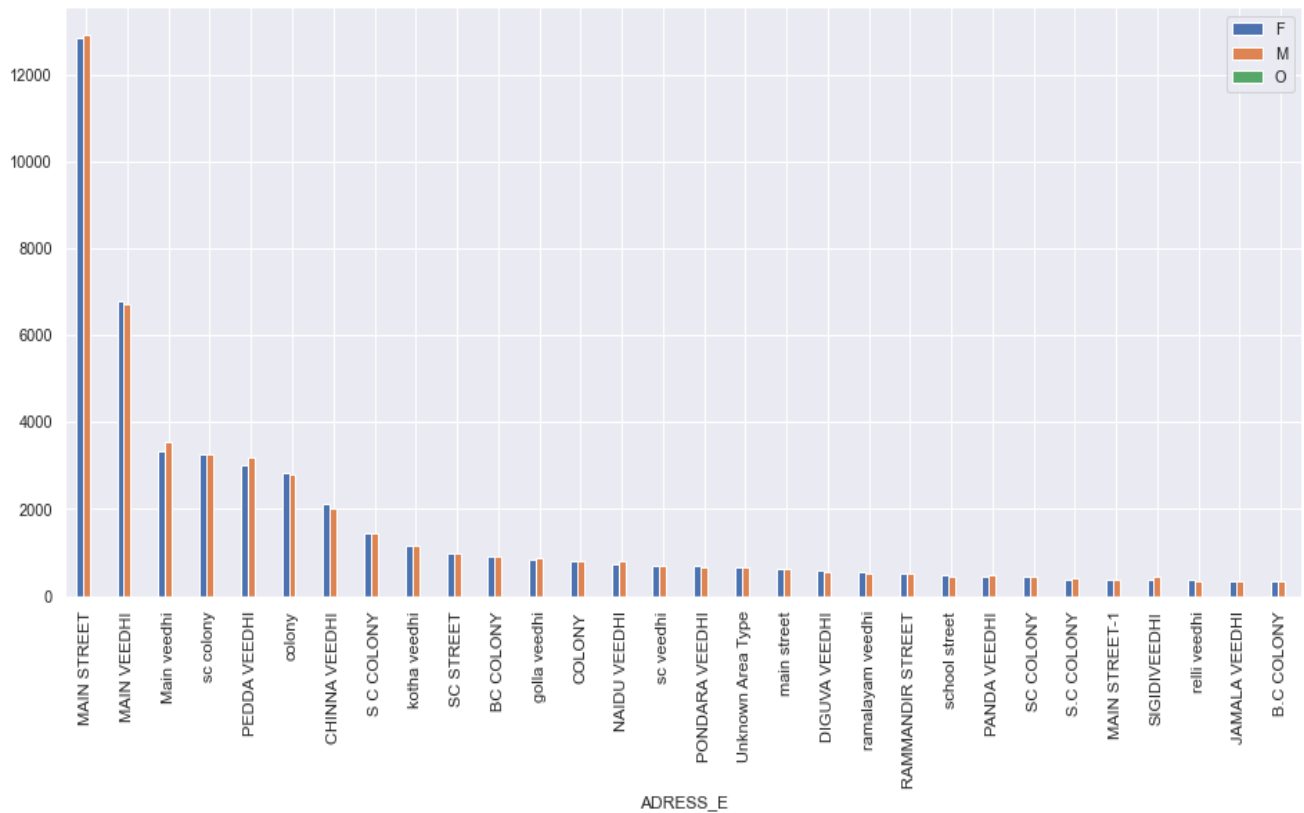
- As we can see here grouped the ages with their respective observations in ascending order.

- There are 488 unique ADDREES_E.

- This has vote count of Gender with their respective address.

- "Gender group" has most values concentrated in the categories with Main Street(13000 votes), and Mani veedhi(6000votes).

- The address group of MAIN VEEDHI (3700 Totalvotes) and PEDDA VEEDHI (3500 totalvotes) has the higher women voters more than men voters.
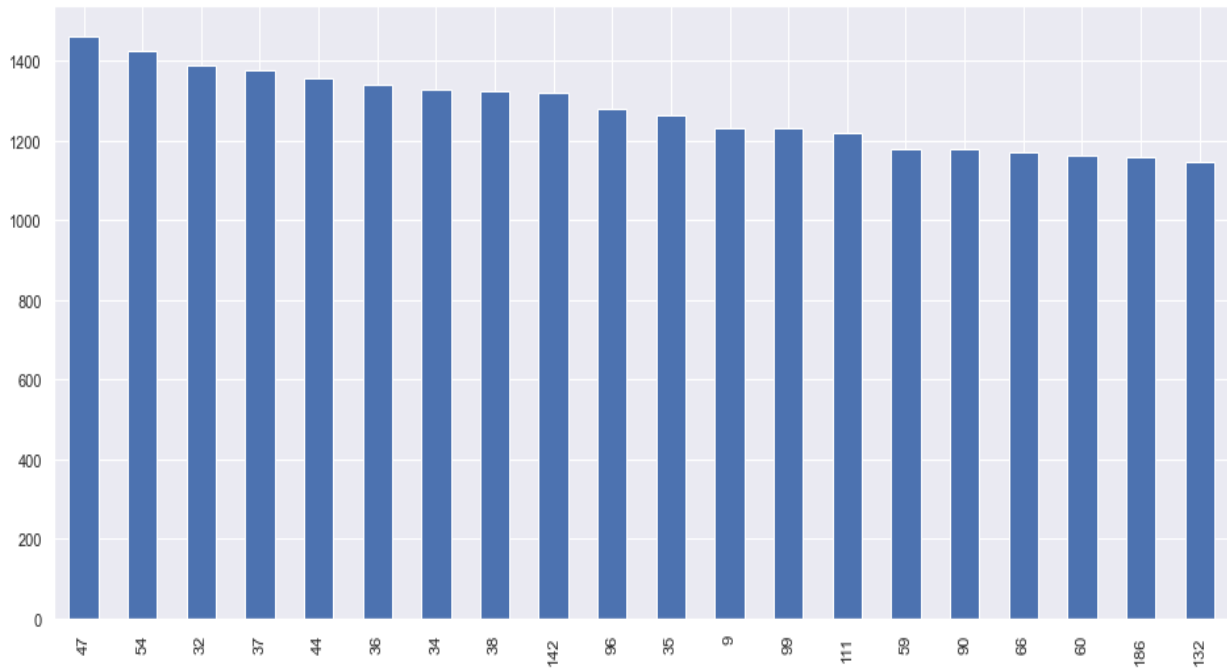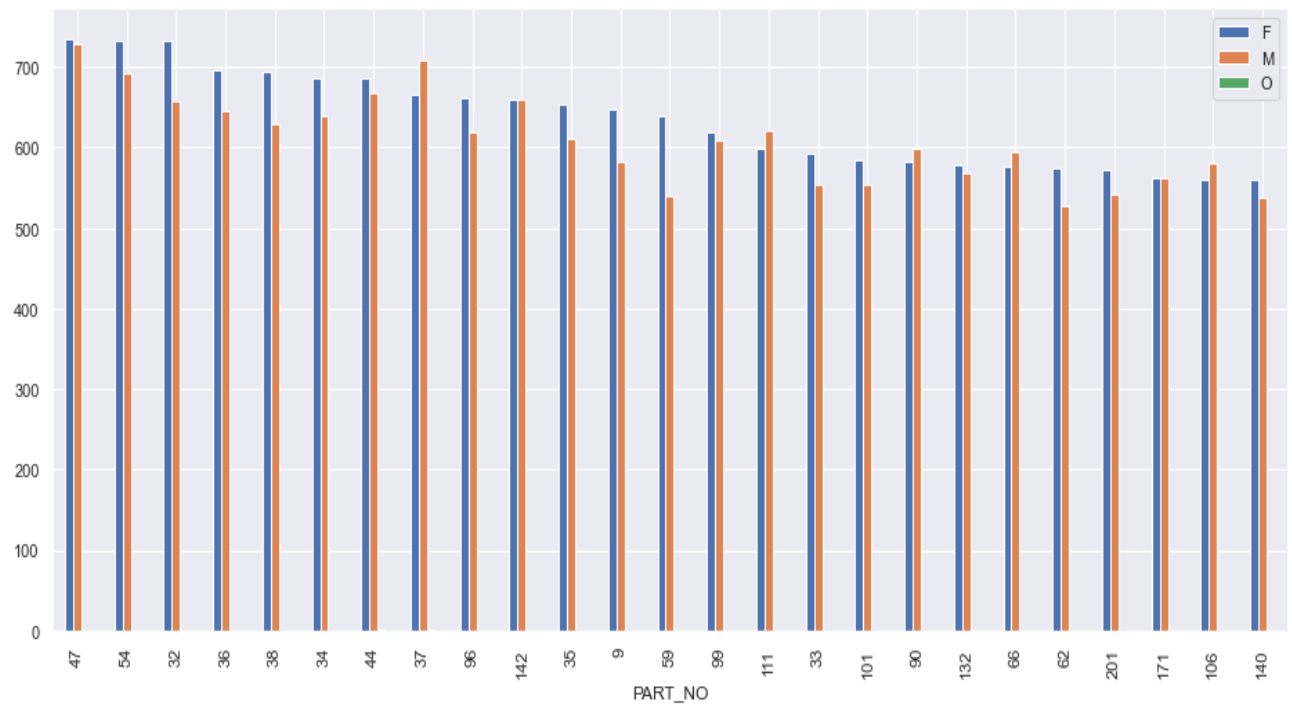
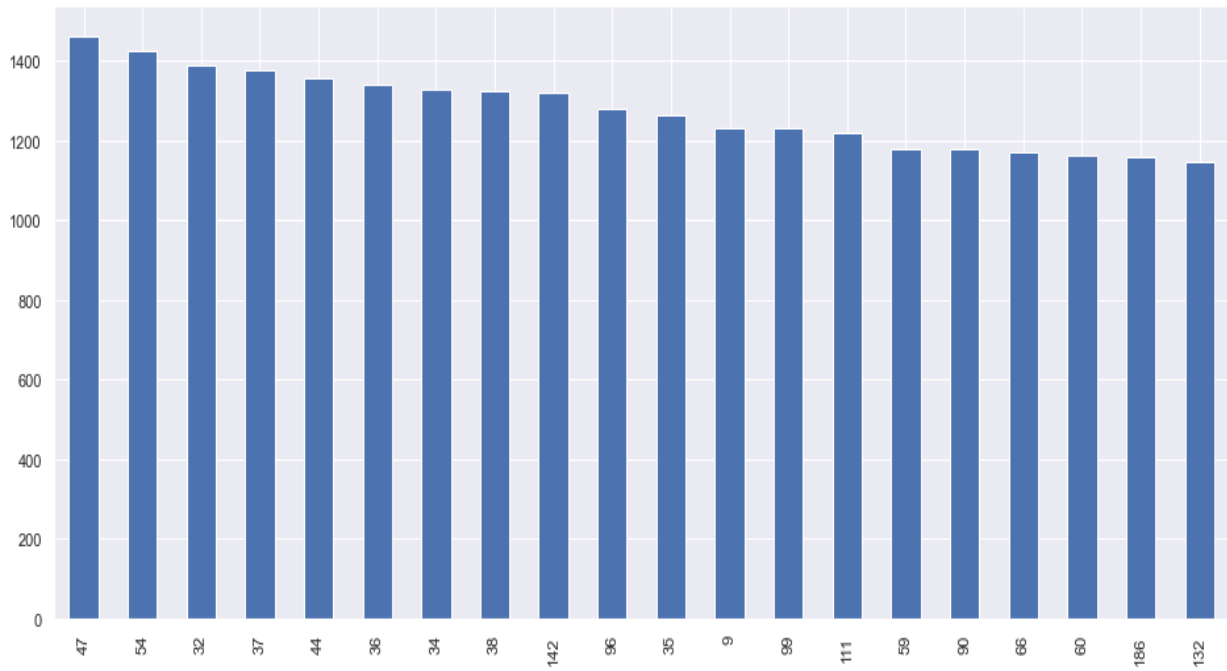## Analysis based on PART_NO wise voters :

PART_NO Number Wise Voter

- This has vote count by PART_NO.
- There are 259 PART_NO.
- "PART_NO group" on figure1 has most values concentrated in the categories with 47, 54 and 32

Analysis based on Genders wise PART_NO :

- This has vote count of Gender with their respective PART_NO.
- There are 259 PART_NO.
- "Gender group" has most values concentrated in the categories with 47, 54 and 32
- The Gender group of Part_no-32, 36, 38, 59 has higher men voters more than women voters and
- The Gender group of Part_no-37, 111 has the higher women voters more than men voters.

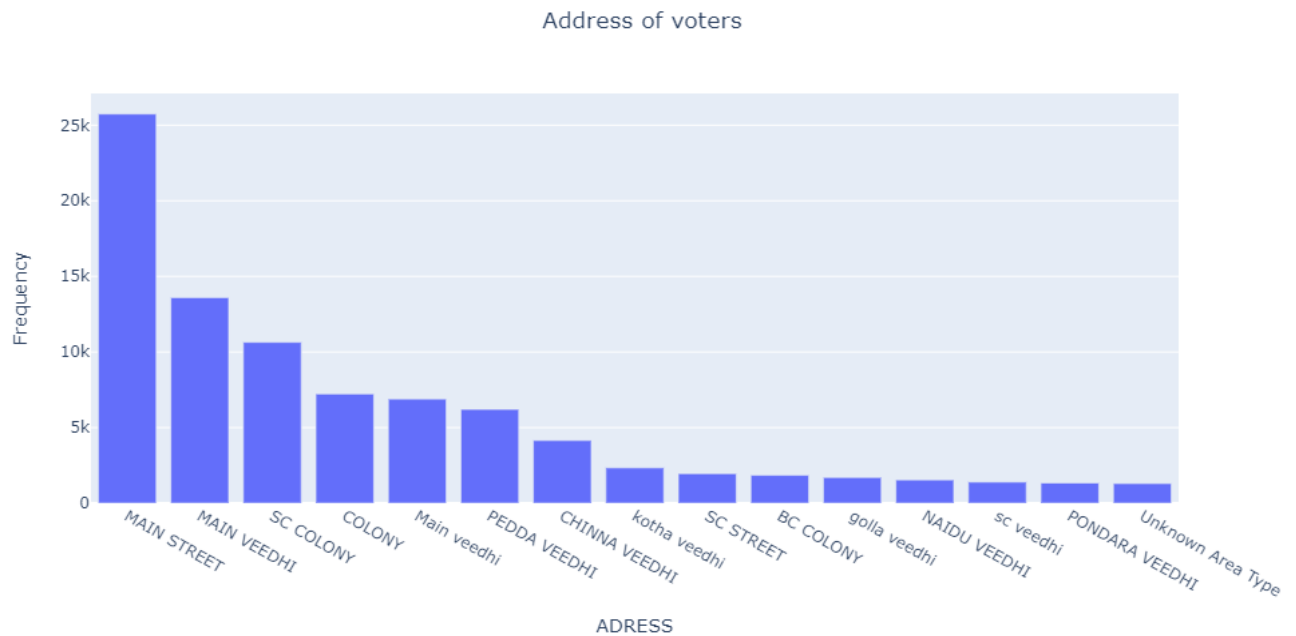## Analysis based on PART_NO wise voters :

PART_NO Number Wise Voter

- This has vote count by PART_NO.
- There are 259 PART_NO.
- "PART_NO group" on figure1 has most values concentrated in the categories with 47, 54 and 32

Analysis based on ADDRESS_E wise voters :

Address of voters

- As we can see here grouped the ages with their respective observations in ascending order.
- This has unique vote count of 488 on ADDREES_E with their respective address.
- "Gender group" has most values concentrated in the categories with Main Street(26k votes), and Mani veedhi(14k votes).

Analysis based on BOOTH(PS_NAME_EN) wise voters :
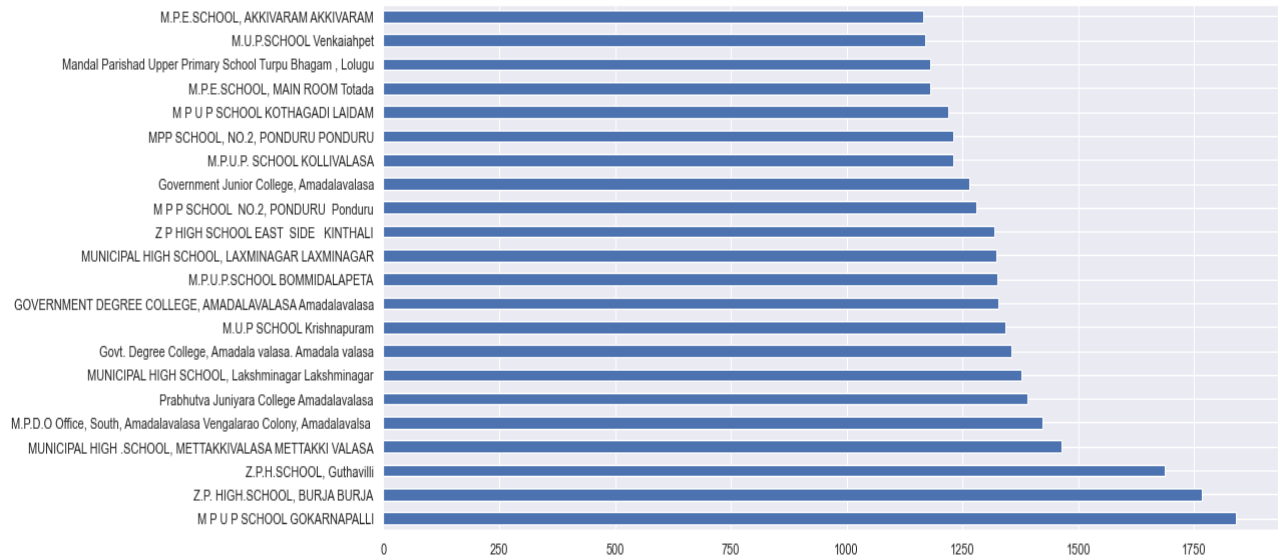
- As we can see here grouped the **PS_NAME_EN** with their respective observations.

- This has unique vote count of 255 on PS_NAME_EN with their respective Booths.

- "PS_NAME_EN group" has most values concentrated in the categories with M P U P SCHOOL GOKARNAPALLI (1900 votes polled), and Mani Z.P. HIGH.SCHOOL, BURJA BURJA(1750 votes).