

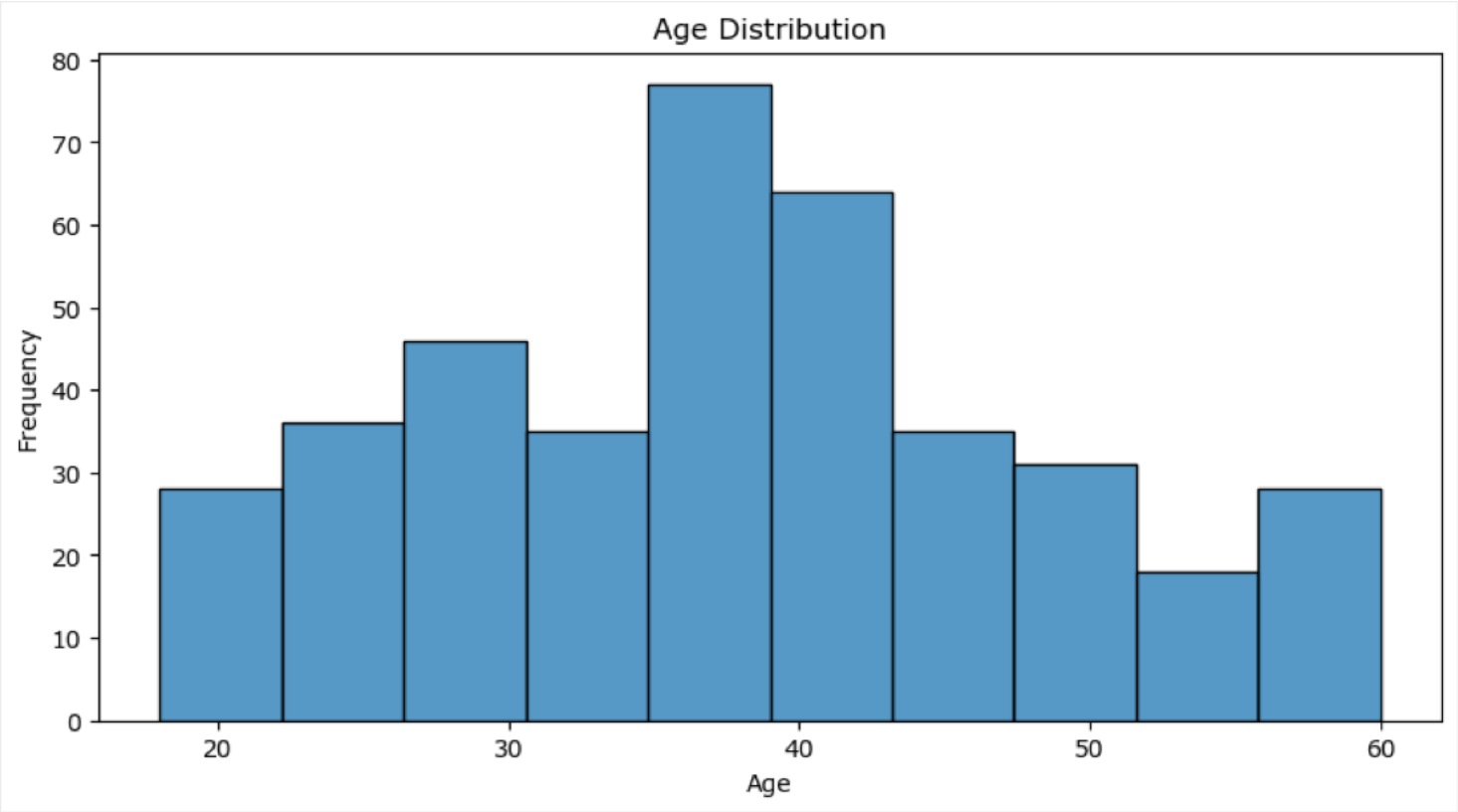
REPORT ON SOCIAL NETWORK ADVERTISING DATASET

This data set is made of 400 rows and 3 columns consisting of 'Age', 'Estimated Salary' and 'Purchased' as its columns. It provides a thorough understanding of those who made purchases against their ages and salaries.

Below is the first seven rows of the dataset:

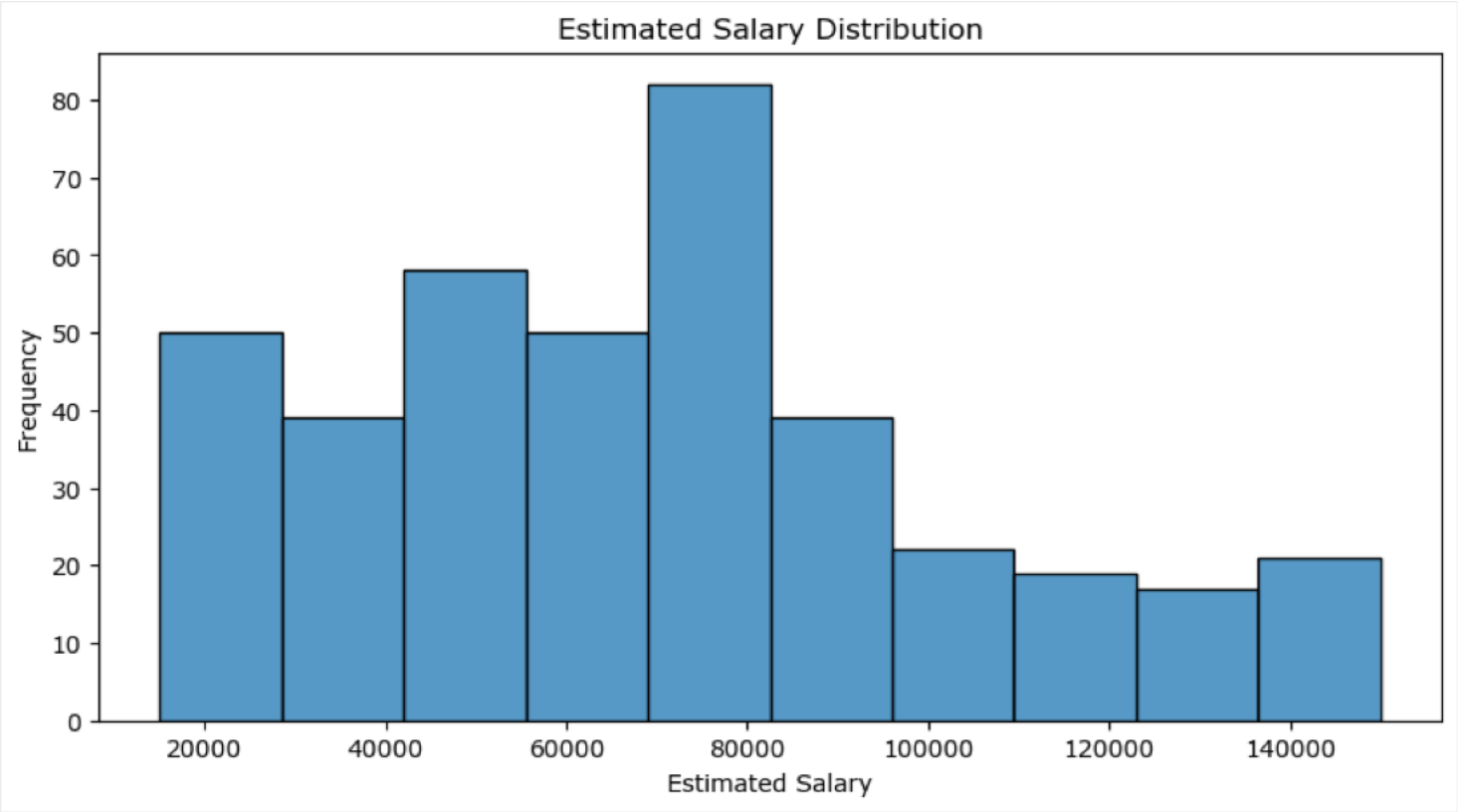
S/N	Age	EstimatedSalary	Purchased
0	19.0	19000.0	0.0
1	35.0	20000.0	0.0
2	26.0	43000.0	0.0
3	27.0	57000.0	0.0
4	19.0	76000.0	0.0
5	27.0	58000.0	0.0
6	27.0	84000.0	0.0

Age Distribution:

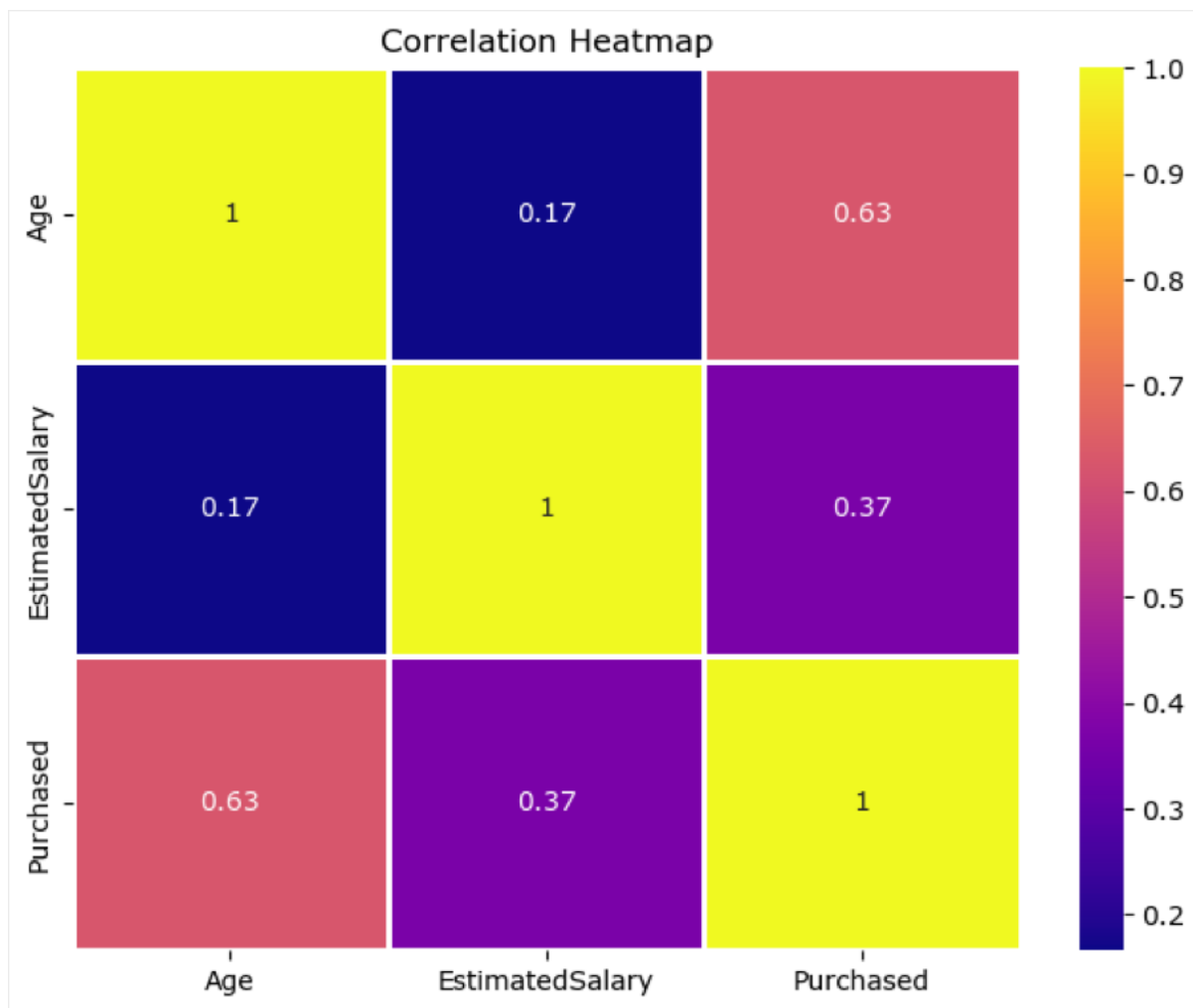


The age distribution of the dataset is normally distributed with its highest values ranging from about 35 to 39 and its lowest from about 52 to 56.

Estimated Salary Distribution:



The estimated salary distribution shows a right-skew pattern with the highest values ranging from about 70000 to 82000.



From the above chart, we see that the correlation between Age and Purchased is high at 0.63, suggesting that age is a determining factor that purchases made. The correlation between the Estimated Salary and Purchased is moderate at 0.37 which shows that a moderate increase in salaries will affect the number of purchases made.

The correlation between the Estimated Salary and Age is weak at 0.17 indicating that age barely affects the salaries in this dataset.