

Identify the value of K for features (Age, AnnualIncome, SpendingScore). Train model and identify groups for each record in the dataset.

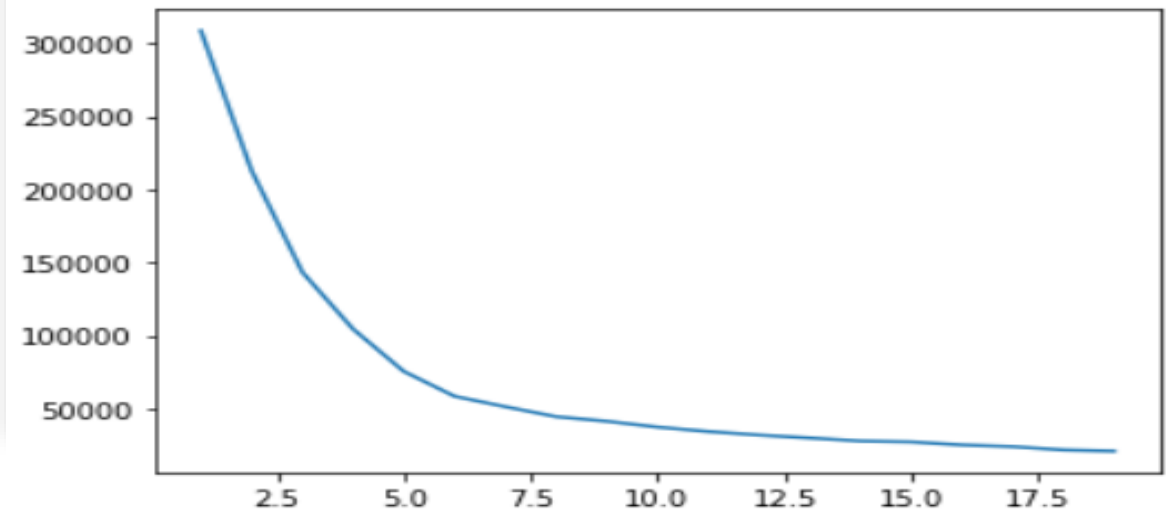
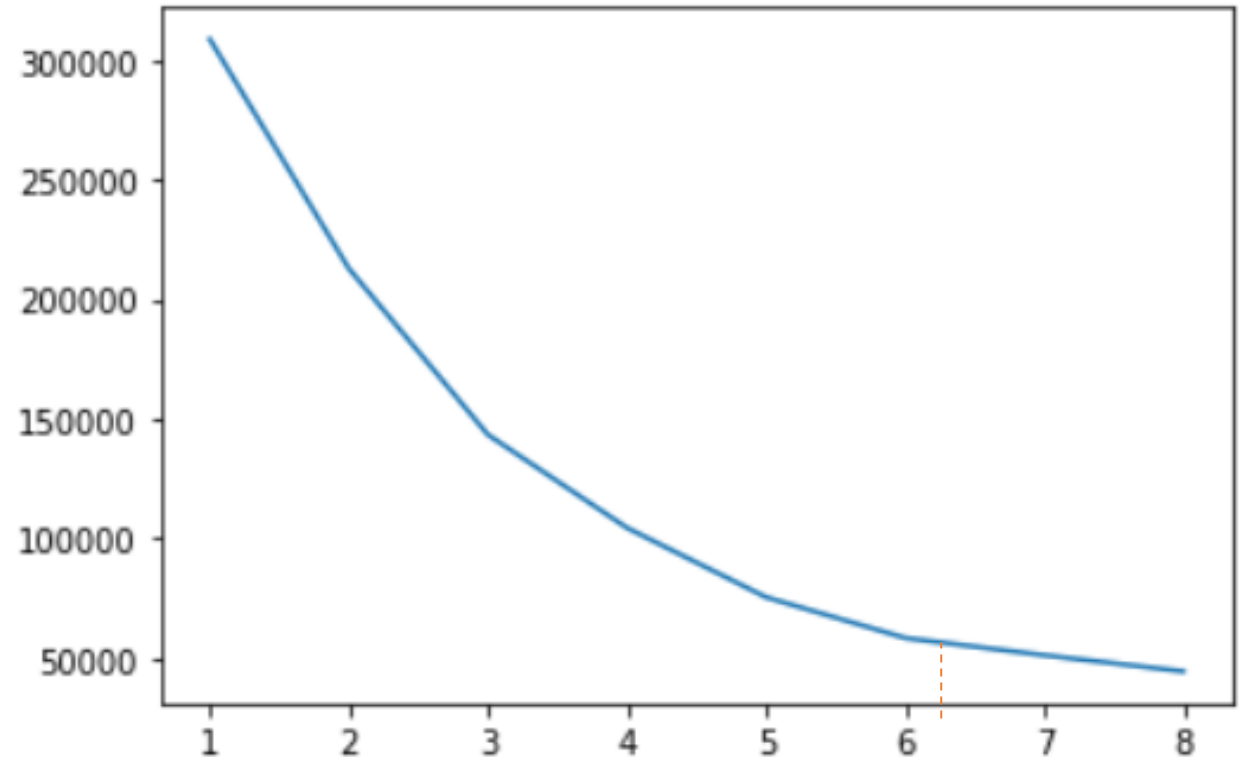
Vinod Sinha

Assignment2



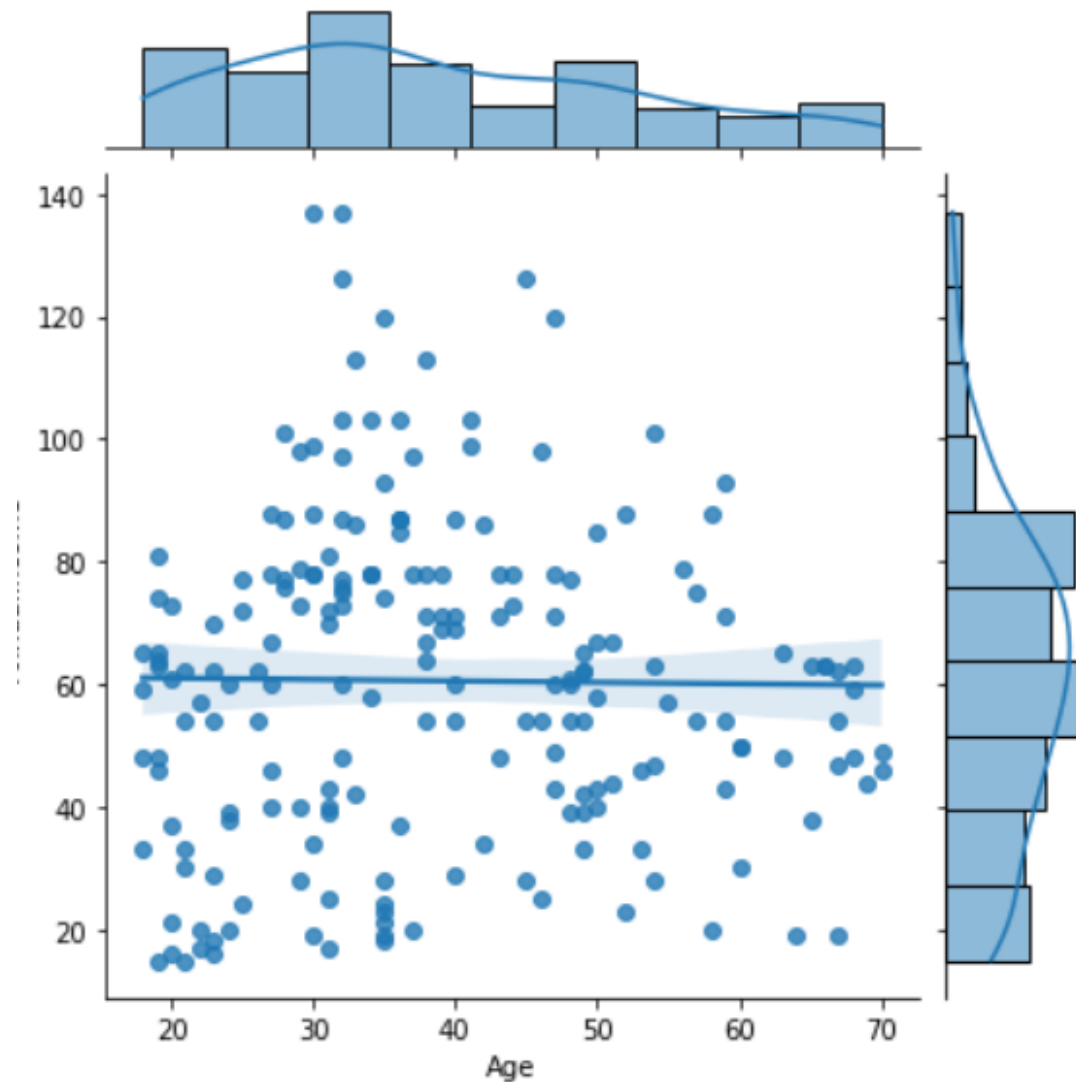
Identify Optimal K-value using Elbow Method

- The graph at the bottom with the range 30 shows that WCSS is somewhere below 10.
- The second graph shows that the first elbow from right is at point 6.



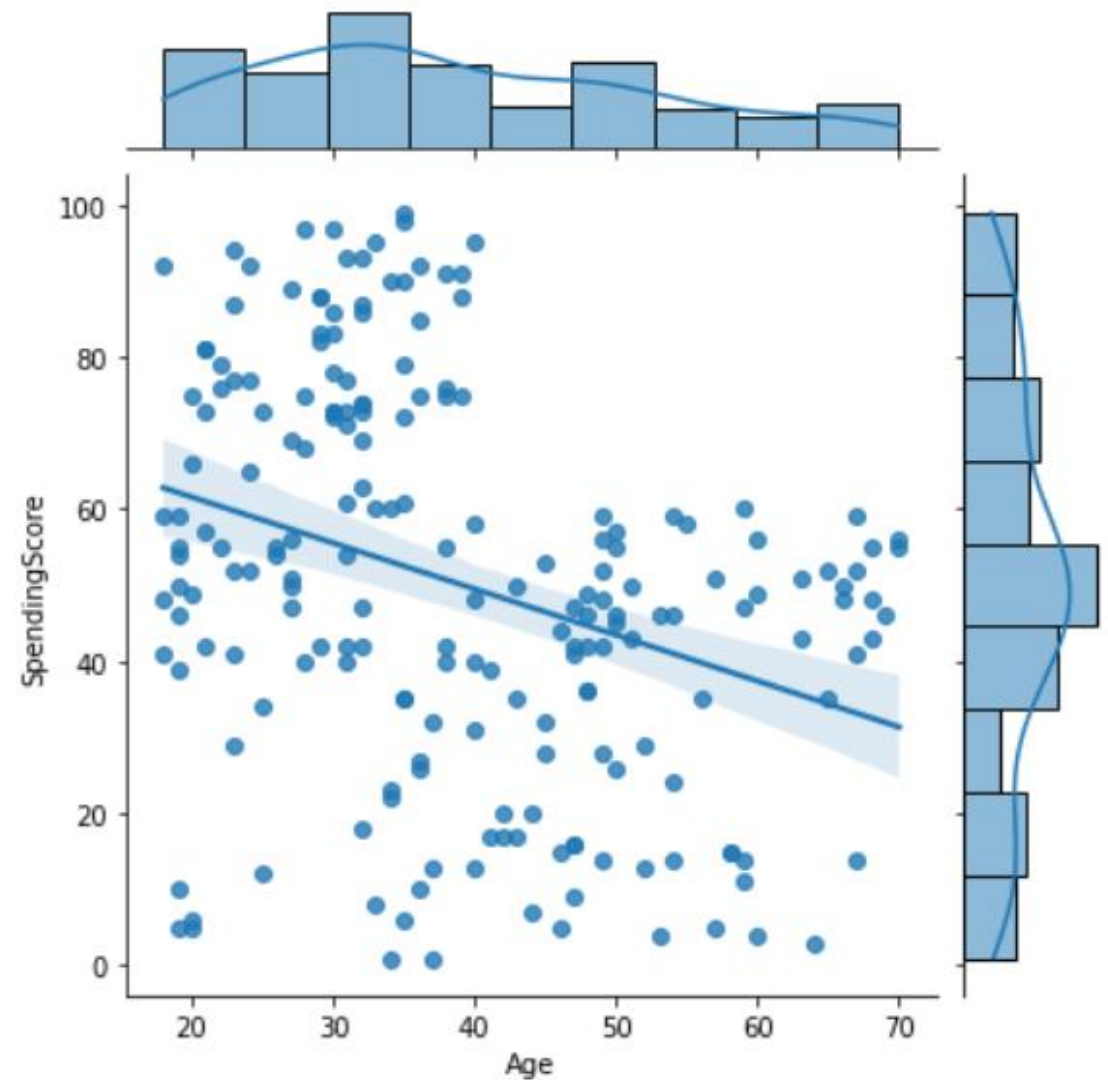
Age & Annual Income Relationship

- This graph shows that
 - Most people between age 20 years and 40 years have most income
 - People between age 30 year and 50 years tend to have higher income
 - People older than 50 years have income stabilizing



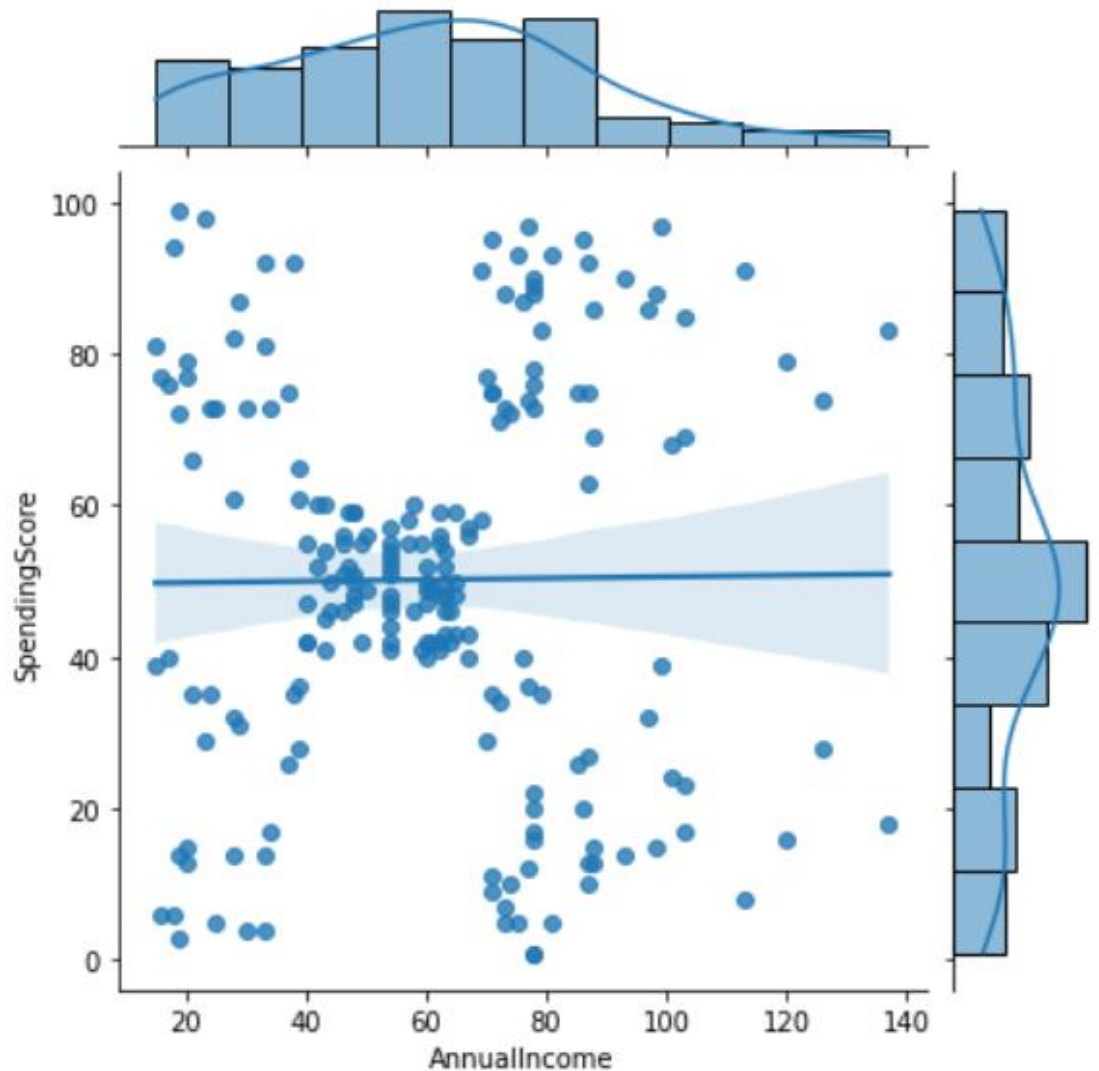
Age & Spending Score Relationship

- This graph shows that
 - Most people between age 20 years and 40 years have higher spending score
 - People older than 50 years have spending level in the middle
 - Generally spending score goes down as people age.



Annual Income & Spending Score Relationship

- This graph shows that
 - Most people with their income level between \$40K and \$70K tend to collectively spend most.
 - People with annual income higher than \$100K tend to spend less.





Thank you!