



Module 6: Data Visualization Case Study 1

Problem Statement:

Consider yourself to be Sam who is a data scientist. He has been approached by a telecom company to build some aesthetic graphs to make better sense of the customer data.

Tasks To Be Performed:

1. Sam has to build a bar-plot for the 'Contract' column:
 - a. Set the x-axis label to be 'Contract Type of customer'
 - b. Set the y-axis label to be 'Count'
 - c. Set the title of the plot to be 'Distribution of Contract'
 - d. Assign 'orange' color to all the bars
2. Sam has to build a histogram for the 'MonthlyCharges' column:
 - a. Set the x-axis label to be 'Monthly Charges Incurred'
 - b. Set the y-axis label to be 'Count'
 - c. Set the title of the plot to be 'Distribution of Monthly Charges'
 - d. Assign 'forestgreen' color to the bins
3. Sam has to build a scatter-plot between 'TotalCharges' and 'tenure'. 'TotalCharges' should be on the y-axis and 'tenure' should be on the x-axis.
 - a. Set the x-axis label to be 'Tenure of the customer'
 - b. Set the y-axis label to be 'Total chargesIncurred'
 - c. Set the title of the plot to be 'Total Charges vs Tenure'
 - d. Assign 'indigo' color to the points
4. Sam has to build a box-plot between 'MonthlyCharges' and 'PaymentMethod'. 'MonthlyCharges' should be on the y-axis and 'PaymentMethod' should be on the x-axis.
 - a. Set the x-axis label to be 'Payment Method of customer'
 - b. Set the y-axis label to be 'Monthly ChargesIncurred'
 - c. Set the title of plot to be 'Monthly Charges vs. Payment Method'
 - d. Assign 'olive' color to the box-plots