TASK SHEET

1. Age Distribution: What is the age distribution of patients?

Plot: Histogram with a KDE overlay.

1. Gender Distribution: What is the gender distribution of patients?

Plot: Bar chart.

1. Ethnicity Proportion: What is the proportion of different ethnicities in the dataset?

Plot: Pie chart or bar chart.

1. Education Level Distribution: How is the education level distributed among patients?

Plot: Bar chart.

1. BMI Analysis: What is the distribution of BMI among patients?

Plot: Box plot.

1. Smoking Habits: How does smoking status vary with age and gender?

Plot: Stacked bar chart.

1. Alcohol Consumption: What are the patterns of alcohol consumption across different age groups?

Plot: Violin plot.

1. Physical Activity: How does physical activity level vary with age and gender?

Plot: Stacked bar chart.

1. Diet Quality: What is the distribution of diet quality scores among patients?

Plot: Box plot.

1. Sleep Quality: How does sleep quality correlate with age and gender?

Plot: Heatmap.

1. Family History of Alzheimer's: How many patients have a family history of Alzheimer's?

Plot: Bar chart.

1. Cardiovascular Disease: How prevalent is cardiovascular disease among different age groups?

Plot: Stacked bar chart.

1. Diabetes Prevalence: What is the prevalence of diabetes among patients?

Plot: Bar chart.

1. Depression and Alzheimer's: What is the relationship between depression and Alzheimer's diagnosis?

Plot: Stacked bar chart or grouped bar chart.

1. Head Injury History: How does head injury history correlate with Alzheimer's diagnosis?

Plot: Grouped bar chart.

1. Hypertension: What is the distribution of hypertension among patients?

Plot: Bar chart.

1. Blood Pressure Analysis: How do systolic and diastolic blood pressure levels vary with age and gender?

Plot: Scatter plot with regression line.

1. Cholesterol Levels: What is the distribution of total cholesterol, LDL, HDL, and triglycerides among patients?

Plot: Box plots for each cholesterol type.

1. MMSE Scores: How are MMSE scores distributed among patients?

Plot: Histogram with a KDE overlay.

1. Functional Assessment: How do functional assessment scores correlate with age and gender?

Plot: Heatmap.

1. Memory Complaints: What is the distribution of memory complaints among patients?

Plot: Bar chart.

1. Behavioral Problems: How prevalent are behavioral problems in different age groups?

Plot: Stacked bar chart.

1. ADL (Activities of Daily Living): What is the distribution of ADL scores among patients?

Plot: Box plot.

1. Confusion and Disorientation: How common are confusion and disorientation among patients with different ages?

Plot: Stacked bar chart.

1. Diagnosis and Doctor in Charge: What is the distribution of Alzheimer's diagnosis across different doctors?

Plot: Bar chart.