Executive Summary Report

Exploratory Data Analysis Summary:

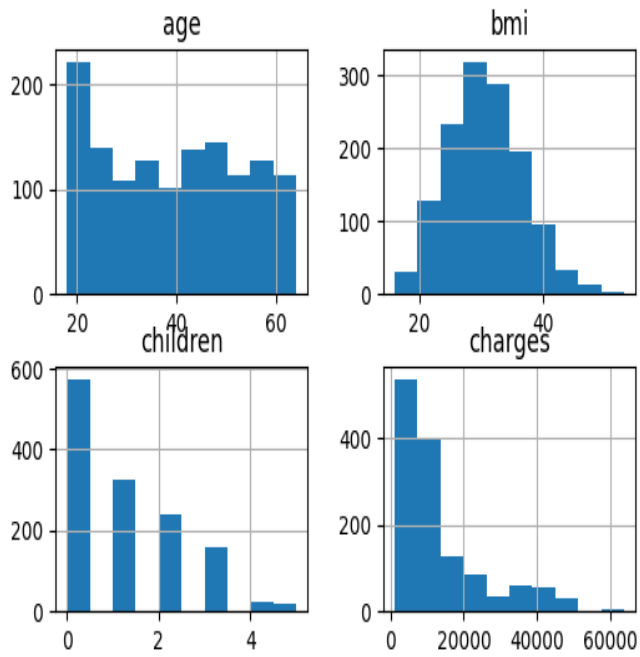| Column	age	bmi	children	charges
count	1338.000000	1338.000000	1338.000000	1338.000000
mean	39.207025	30.663397	1.094918	13270.422265
std	14.049960	6.098187	1.205493	12110.011237
min	18.000000	15.960000	0.000000	1121.873900
25%	27.000000	26.296250	0.000000	4740.287150
50%	39.000000	30.400000	1.000000	9382.033000
75%	51.000000	34.693750	2.000000	16639.912515
max	64.000000	53.130000	5.000000	63770.428010

Category Counts Summary:

sex: 2 unique categories
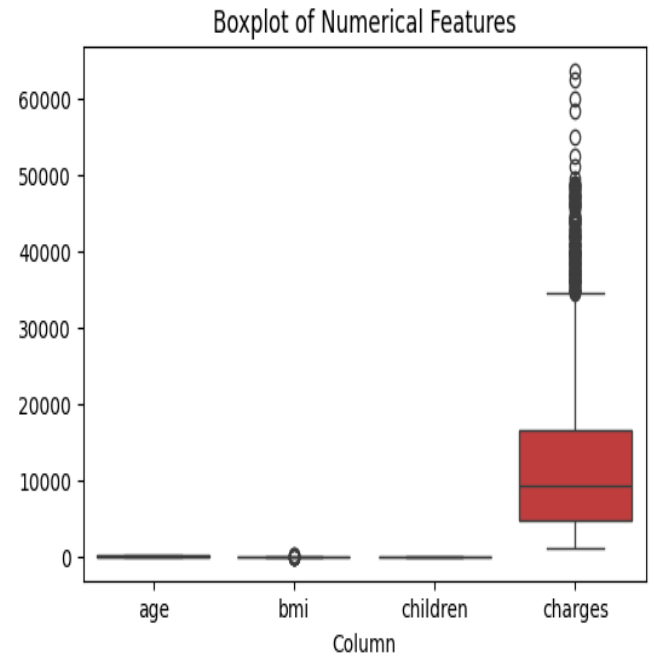
smoker: 2 unique categories

region: 4 unique categories

AI Insight 1:

Columns are broken down by age, sex, and region. Children are grouped into two categories: "unique" and "top" Children are also grouped into "unique," "top," and "preferential" Categories are based on charges, BMI, and other factors. Children   1.000 grotesquely charged charges. Region distributions: southeastern, north, west, northeast, south. Gender distributions: male, female, region, male, region. Smoker distributions:male, female. Smokers: no.
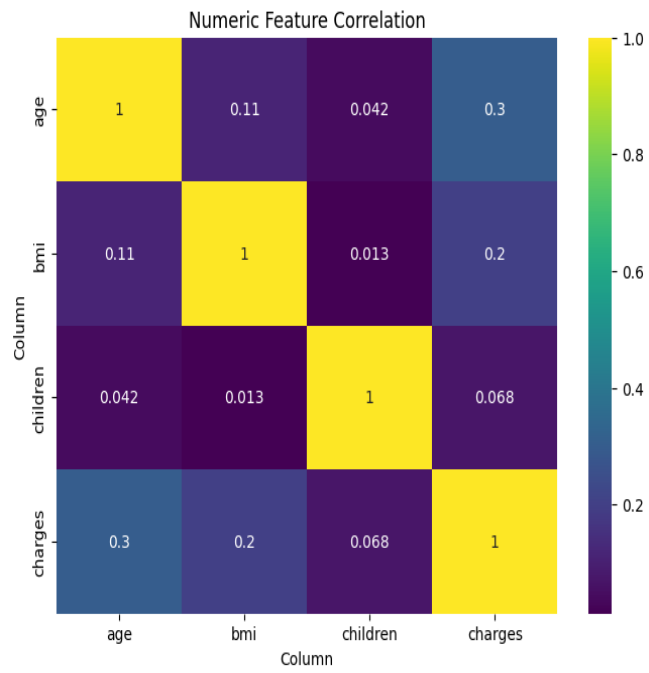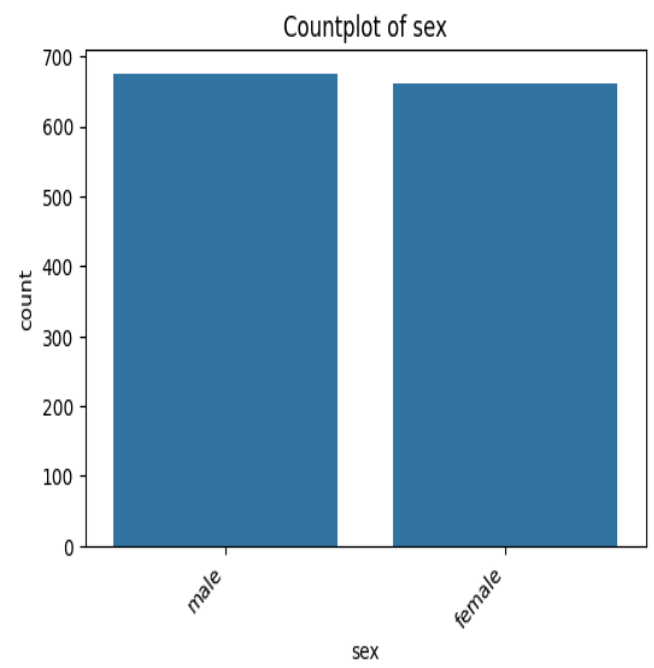
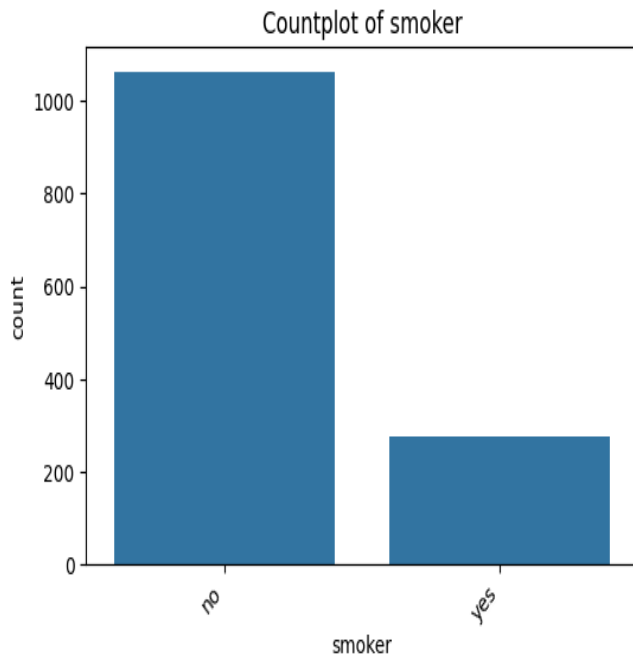**Visualization 1**

Visualization 2

Visualization 3

Numeric Feature Correlation

Visualization 4

Countplot of sex

Visualization 5

Countplot of smoker

Visualization 6

Countplot of region