

Shape

(1338, 7)

Names of the Columns

Index(['age', 'sex', 'bmi', 'children', 'smoker', 'region', 'charges'], dtype='object')

Information

<class 'pandas.core.frame.DataFrame'>

RangeIndex: 1338 entries, 0 to 1337

Data columns (total 7 columns):

age 1338 non-null int64

sex 1338 non-null object

bmi 1338 non-null float64

children 1338 non-null int64

smoker 1338 non-null object

region 1338 non-null object

charges 1338 non-null float64

dtypes: float64(2), int64(2), object(3)

memory usage: 73.3+ KB

Statistical Description

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 5.000000 63770.428010 64.000000 53.130000 max

Types of Instances

18 69

19 68

51 29

*4*5 29

46 29

47 29

48 29

50 29

52 29

20 29

26 28

54 28

53 28

25 28

24 28

49 28

23 28

22 28

21 28

27 28

28 28

31 27

29 27

30 27

41 27

43 27

44 27

- 40 27
- 42 27
- 57 26
- 34 26
- 33 26
- 32 26
- 56 26
- 55 26
- 59 25
- 58 25
- 39 25
- 38 25
- 35 25
- 36 25
- 37 25
- 63 23
- 60 23
- 61 23
- 62 23
- 64 22

Name: age, dtype: int64

male 676

female 662

Name: sex, dtype: int64

- 32.300 13
- 28.310 9
- 31.350 8
- 30.800 8

30.875 8

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20.100 1

29.545 1

37.900 1

25.520 1

24.090 1

Name: bmi, Length: 548, dtype: int64

0 574

1 324

2 240

3 157

4 25

5 18

Name: children, dtype: int64

no 1064

yes 274

Name: smoker, dtype: int64

southeast 364

southwest 325

northwest 325

northeast 324

Name: region, dtype: int64

1639.56310 2

8825.08600 1

43254.41795 1

5257.50795 1

1980.07000 1

.

12269.68865 1

6360.99360 1

7371.77200 1

16420.49455 1

34254.05335 1

Name: charges, Length: 1337, dtype: int64

Correlation matrix

age bmi children charges

age 1.000000 0.109272 0.042469 0.299008

bmi 0.109272 1.000000 0.012759 0.198341

children 0.042469 0.012759 1.000000 0.067998

charges 0.299008 0.198341 0.067998 1.000000