

File - data_overview

C:\Users\chole\miniconda3\python.exe C:/Users/chole/Desktop/Cervical_cancer_behavior_risk/
data_overview.py

Types of data:

```
behavior_sexualRisk      int64
behavior_eating          int64
behavior_personalHygiene int64
intention_aggregation    int64
intention_commitment     int64
attitude_consistency     int64
attitude_spontaneity     int64
norm_significantPerson   int64
norm_fulfillment         int64
perception_vulnerability int64
perception_severity      int64
motivation_strength      int64
motivation_willingness   int64
socialSupport_emotionality int64
socialSupport_appreciation int64
socialSupport_instrumental int64
empowerment_knowledge    int64
empowerment_abilities    int64
empowerment_desires      int64
ca_cervix                int64
```

dtype: object

Target:

No 51

Yes 21

Name: ca_cervix, dtype: int64

Percentage of people with cancer: 29.17%

	count	mean	std	min	25%	50%	75%	max
behavior_sexualRisk	72.0	9.666667	1.186782	2.0	10.00	10.0	10.00	10.0
behavior_eating	72.0	12.791667	2.361293	3.0	11.00	13.0	15.00	15.0
behavior_personalHygiene	72.0	11.083333	3.033847	3.0	9.00	11.0	14.00	15.0
intention_aggregation	72.0	7.902778	2.738148	2.0	6.00	10.0	10.00	10.0
intention_commitment	72.0	13.347222	2.374511	6.0	11.00	15.0	15.00	15.0
attitude_consistency	72.0	7.180556	1.522844	2.0	6.00	7.0	8.00	10.0
attitude_spontaneity	72.0	8.611111	1.515698	4.0	8.00	9.0	10.00	10.0
norm_significantPerson	72.0	3.125000	1.845722	1.0	1.00	3.0	5.00	5.0
norm_fulfillment	72.0	8.486111	4.907577	3.0	3.00	7.0	14.00	15.0
perception_vulnerability	72.0	8.513889	4.275686	3.0	5.00	8.0	13.00	15.0
perception_severity	72.0	5.388889	3.400727	2.0	2.00	4.0	9.00	10.0
motivation_strength	72.0	12.652778	3.207209	3.0	11.00	14.0	15.00	15.0
motivation_willingness	72.0	9.694444	4.130406	3.0	7.00	11.0	13.00	15.0
socialSupport_emotionality	72.0	8.097222	4.243171	3.0	3.00	9.0	11.25	15.0
socialSupport_appreciation	72.0	6.166667	2.897303	2.0	3.75	6.5	9.00	10.0
socialSupport_instrumental	72.0	10.375000	4.316485	3.0	6.75	12.0	14.25	15.0
empowerment_knowledge	72.0	10.541667	4.366768	3.0	7.00	12.0	15.00	15.0
empowerment_abilities	72.0	9.319444	4.181874	3.0	5.00	10.0	13.00	15.0
empowerment_desires	72.0	10.277778	4.482273	3.0	6.75	11.0	15.00	15.0

Coefficient of variation

```
behavior_sexualRisk      12.191496
behavior_eating          18.330979
behavior_personalHygiene 27.182297
intention_aggregation    34.406472
intention_commitment     17.666324
attitude_consistency     21.060091
attitude_spontaneity     17.478990
norm_significantPerson   58.651513
norm_fulfillment         57.427688
perception_vulnerability 49.870164
perception_severity      62.666507
motivation_strength      25.171222
motivation_willingness   42.308994
```

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socialSupport_emotionality	52.037616
socialSupport_appreciation	46.655882
socialSupport_instrumental	41.314743
empowerment_knowledge	41.135214
empowerment_abilities	44.559859
empowerment_desires	43.307385
dtype: float64	

Kurtosis

behavior_sexualRisk	25.867990
behavior_eating	2.721887
behavior_personalHygiene	-0.344012
intention_aggregation	-0.245905
intention_commitment	0.811222
attitude_consistency	0.898826
attitude_spontaneity	0.053858
norm_significantPerson	-1.870863
norm_fulfillment	-1.706027
perception_vulnerability	-1.370445
perception_severity	-1.722945
motivation_strength	1.351565
motivation_willingness	-1.147562
socialSupport_emotionality	-1.456053
socialSupport_appreciation	-1.361089
socialSupport_instrumental	-1.219106
empowerment_knowledge	-1.156339
empowerment_abilities	-1.302712
empowerment_desires	-1.171042
dtype: float64	

Skewness

behavior_sexualRisk	-4.726348
behavior_eating	-1.288417
behavior_personalHygiene	-0.495665
intention_aggregation	-1.025822
intention_commitment	-1.323381
attitude_consistency	-0.314268
attitude_spontaneity	-0.854840
norm_significantPerson	-0.119447
norm_fulfillment	0.200643
perception_vulnerability	0.224658
perception_severity	0.270296
motivation_strength	-1.467241
motivation_willingness	-0.387659
socialSupport_emotionality	0.054630
socialSupport_appreciation	-0.209869
socialSupport_instrumental	-0.515717
empowerment_knowledge	-0.607618
empowerment_abilities	-0.142479
empowerment_desires	-0.542501
dtype: float64	

Standard outliers

behavior_sexualRisk	8
behavior_eating	1
behavior_personalHygiene	0
intention_aggregation	0
intention_commitment	0
attitude_consistency	1
attitude_spontaneity	1
norm_significantPerson	0
norm_fulfillment	0
perception_vulnerability	0
perception_severity	0
motivation_strength	3
motivation_willingness	0
socialSupport_emotionality	0

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```
socialSupport_appreciation    0
socialSupport_instrumental    0
empowerment_knowledge         0
empowerment_abilities         0
empowerment_desires           0
dtype: int64
```

Extreme outliers

```
behavior_sexualRisk           8
behavior_eating               0
behavior_personalHygiene      0
intention_aggregation         0
intention_commitment          0
attitude_consistency          0
attitude_spontaneity          0
norm_significantPerson        0
norm_fulfillment              0
perception_vulnerability      0
perception_severity           0
motivation_strength           0
motivation_willingness        0
socialSupport_emotionality     0
socialSupport_appreciation     0
socialSupport_instrumental     0
empowerment_knowledge         0
empowerment_abilities         0
empowerment_desires           0
dtype: int64
```

KMO Test

```
per variable: [0.43258517 0.36087396 0.64874337 0.55517309 0.44921139 0.48348683
0.44278823 0.68575991 0.7622958 0.75531163 0.72138996 0.73425466
0.85828353 0.79611468 0.67575703 0.73632287 0.71387439 0.80264786
0.87012569] total: 0.7240722780497576
```

Process finished with exit code 0