

CLASSIFICATION REPORT

All the classifiers above are Gaussian Naive Bayes classifiers. Each classifier runs on data from a different feature from the behaviour risk cervical cancer dataset. These unique features are: behavior, intention, attitude, norm, perception, motivation, social support and empowerment. From the above runs, the feature with the best F1 accuracy score is Perception with an accuracy score of 0.8. Meaning the classifier predicted correctly the presence of cervical cancer in patients 80% of the time. Behaviour, motivation and empowerment features all had an accuracy of 73%, meaning they are features with similar characteristics and can be utilized by the classifier interchangeably, same case for norm and intention with accuracy scores of 66%. The worst performers are Social Support with 60% and attitude with 53%. This also shows that there are 4 distinct features in the data that can be utilized by classification algorithms.