- * TITLE: Naive Bayes Classification.
- * PROBLEM STATEMENT: Download PIMA Judians Diabetes dataset: Use Naine
 Bayes Algorithm for classification. Load the data from cov file El

 split it into training and test databases so that he can calculate
 probabilities and make predictions classify samples from a test dataset

 le a rummanized fraining classet:
- * OBJECTIVE: Understand Naive Bayes algorithm for classification, and we it on Pima Indians dataset.
- Bayes classification on parameters, in dataset like Blood puess we BMI.
- * SOPTWARE & HARDWARE REQUIREMENTS: 64 bit OS [UNIX/LINUX], python3, Jupyter mumpy, pandas, seaborn, 89B RAM, i5 processor, 128 GB SSO.

THEORY:

They are based on Bayes Theorem, which describes the probability of a certain event occurring, based on power knowledge of coord.

Bayes theorem is started mothermortically.

P(AIB) = P(BIA) P(A) where AB are events.

P(B)

P(AIB) is a conditional probability the likelihood of event A occurring knowing that B is true; P(BIA) is also conditional, the likelihood of B occurring knowing that A is true.

the above thiosen, with strong (naive assumption that the features

These models assign class labels to problem instances represented as vectors of feature values. The class labels are drawn from finite set. Principle of Naive Bayes clousifies is; "a particular feature is independent of the value of any other feature, given the class variable; each feature contributes independently to the probability of positive outcome, regardless of any possible correlations. Abstractly Inaire Bayes is a conditional probability model, be can be trained very efficiently in a supervised learning, depicte its make baye design leapprently oversimplified assumptions, it have preven to work well in real world settings.

The objective of the dataset is to abaynostically prudict, whether of

The objective of the dataset is to alagnostically puldlet whether a not patient has datasets, based on certain chagnostic measures included. Several constraints were placed on the selection of these instances from the larger databases; in particular, all patients here at least 21 yrs old, be are females of fining Indian heritage.

* CONCLUSION :

The Naive Bayes classifier was successfully applied to the sleaned dataset, and the outcome was presorted, with our occuracy of 747.