**QTW-Week 6 Presession Submission-Naïve Bayes**

**This week was all about Naïve Bayes**

Naïve bayes is a classification technique that assumes all the predictors to be independent.

Bayes Rule is represented as:

**Text

Description automatically generated**

In simple terms,

Text

Description automatically generated

Logit Function:

Logo

Description automatically generated with medium confidence

The logistic regression optimizes the linear equation for the loss function.

The create generative-discriminative pair:

Logistic regression works as discriminative which can have lower asymptotic error and Bayes works as generative which reaches asymptotic error faster.