RNaiveBayes

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```
library(tm)
```

```
## Loading required package: NLP
```

```
library(stringr)
library(wordcloud)
```

```
## Loading required package: RColorBrewer
```

```
library(SnowballC)
library(arules)
```

```
## Loading required package: Matrix
```

```
##
## Attaching package: 'arules'
```

```
## The following object is masked from 'package:tm':
##
##     inspect
```

```
## The following objects are masked from 'package:base':
##
##     abbreviate, write
```

```
library(cluster)
library(stringi)
library(Matrix)
library(tidytext)
library(plyr)
library(factoextra)
```

```
## Loading required package: ggplot2
```

```
##
## Attaching package: 'ggplot2'
```

```
## The following object is masked from 'package:NLP':
##
##     annotate
```

```
## Welcome! Want to learn more? See two factoextra-related books at https://goo.gl/ve3WBa
```

```
library(mclust)
```

```
## Package 'mclust' version 5.4.7
## Type 'citation("mclust")' for citing this R package in publications.
```

```
library(naivebayes)
```

```
## naivebayes 0.9.7 loaded
```

```
library(tidyverse)
```

```
## -- Attaching packages --------------------------------------- tidyverse 1.3.0 --
```

```
## v tibble  3.1.5     v purrr   0.3.4
## v tidyr   1.1.3     v dplyr   1.0.5
## v readr   1.4.0     v forcats 0.5.1
```

```
## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x ggplot2::annotate() masks NLP::annotate()
## x dplyr::arrange()    masks plyr::arrange()
## x purrr::compact()    masks plyr::compact()
## x dplyr::count()      masks plyr::count()
## x tidyr::expand()     masks Matrix::expand()
## x dplyr::failwith()   masks plyr::failwith()
## x dplyr::filter()     masks stats::filter()
## x dplyr::id()         masks plyr::id()
## x dplyr::lag()        masks stats::lag()
## x purrr::map()        masks mclust::map()
## x dplyr::mutate()     masks plyr::mutate()
## x tidyr::pack()       masks Matrix::pack()
## x dplyr::recode()     masks arules::recode()
## x dplyr::rename()     masks plyr::rename()
## x dplyr::summarise()  masks plyr::summarise()
## x dplyr::summarize()  masks plyr::summarize()
## x tidyr::unpack()     masks Matrix::unpack()
```

```
library(ggplot2)
library(caret)
```

```
## Loading required package: lattice
```

```
##
## Attaching package: 'caret'
```

```
## The following object is masked from 'package:purrr':
##
##     lift
```

```
library(caretEnsemble)
```

```
##
## Attaching package: 'caretEnsemble'

## The following object is masked from 'package:ggplot2':
##
##     autoplot
```

```
library(psych)
```

```
##
## Attaching package: 'psych'

## The following object is masked from 'package:mclust':
##
##     sim

## The following objects are masked from 'package:ggplot2':
##
##     %+%, alpha
```

```
library(Amelia)
```

```
## Loading required package: Rcpp

## ##
## ## Amelia II: Multiple Imputation
## ## (Version 1.8.0, built: 2021-05-26)
## ## Copyright (C) 2005-2021 James Honaker, Gary King and Matthew Blackwell
## ## Refer to http://gking.harvard.edu/amelia/ for more information
## ##
```

```
library(mice)
```

```
##
## Attaching package: 'mice'

## The following object is masked from 'package:stats':
##
##     filter

## The following objects are masked from 'package:base':
##
##     cbind, rbind
```

```
library(GGally)
```

```
## Registered S3 method overwritten by 'GGally':
##   method from
##   +.gg   ggplot2
```

```
library(e1071)
library(ggthemes)
library(Cairo)
library(network)
```

```
##
## 'network' 1.17.1 (2021-06-12), part of the Statnet Project
## * 'news(package="network")' for changes since last version
## * 'citation("network")' for citation information
## * 'https://statnet.org' for help, support, and other information
```

```
##
## Attaching package: 'network'
```

```
## The following object is masked from 'package:plyr':
##
##     is.discrete
```

```
library(ggtext)
library(readxl)
library(RColorBrewer)
library(slam)
library(proxy)
```

```
##
## Attaching package: 'proxy'
```

```
## The following object is masked from 'package:Matrix':
##
##     as.matrix
```

```
## The following objects are masked from 'package:stats':
##
##     as.dist, dist
```

```
## The following object is masked from 'package:base':
##
##     as.matrix
```

```
library(stringr)
library(textmineR)
```

```
##
## Attaching package: 'textmineR'
```

```
## The following object is masked from 'package:Matrix':
##
##     update

## The following object is masked from 'package:stats':
##
##     update
```

```
library(igraph)
```

```
##
## Attaching package: 'igraph'

## The following objects are masked from 'package:network':
##
##     %c%, %s%, add.edges, add.vertices, delete.edges, delete.vertices,
##     get.edge.attribute, get.edges, get.vertex.attribute, is.bipartite,
##     is.directed, list.edge.attributes, list.vertex.attributes,
##     set.edge.attribute, set.vertex.attribute

## The following objects are masked from 'package:dplyr':
##
##     as_data_frame, groups, union

## The following objects are masked from 'package:purrr':
##
##     compose, simplify

## The following object is masked from 'package:tidyr':
##
##     crossing

## The following object is masked from 'package:tibble':
##
##     as_data_frame

## The following object is masked from 'package:arules':
##
##     union

## The following objects are masked from 'package:stats':
##
##     decompose, spectrum

## The following object is masked from 'package:base':
##
##     union
```

```
library(klaR)
```

```
## Loading required package: MASS
```

```
##
## Attaching package: 'MASS'

## The following object is masked from 'package:dplyr':
##
##     select
```

Raad in the dataset

```
head(CropDF<-read.csv("/Users/raezh1/Documents/Georgetown/ANLY501/assignment_5new/files/Crop_recommenda
```

```
##    N  P  K temperature humidity humidity_level       ph rainfall label
## 1 90 42 43    20.87974 82.00274           High 6.502985 202.9355  rice
## 2 85 58 41    21.77046 80.31964           High 7.038096 226.6555  rice
## 3 60 55 44    23.00446 82.32076           High 7.840207 263.9642  rice
## 4 74 35 40    26.49110 80.15836           High 6.980401 242.8640  rice
## 5 78 42 42    20.13017 81.60487           High 7.628473 262.7173  rice
## 6 69 37 42    23.05805 83.37012           High 7.073454 251.0550  rice
```

Make test and train data

Testing data

Change data type

```
str(CropDF)
```

```
## 'data.frame':    2200 obs. of  9 variables:
##  $ N             : int  90 85 60 74 78 69 69 94 89 68 ...
##  $ P             : int  42 58 55 35 42 37 55 53 54 58 ...
##  $ K             : int  43 41 44 40 42 42 38 40 38 38 ...
##  $ temperature   : num  20.9 21.8 23 26.5 20.1 ...
##  $ humidity      : num  82 80.3 82.3 80.2 81.6 ...
##  $ humidity_level: chr  "High" "High" "High" "High" ...
##  $ ph            : num  6.5 7.04 7.84 6.98 7.63 ...
##  $ rainfall      : num  203 227 264 243 263 ...
##  $ label         : chr  "rice" "rice" "rice" "rice" ...
```

```
CropDF$humidity_level <- as.factor(CropDF$humidity_level)
CropDF$label <- as.factor(CropDF$label)

(Size <- (as.integer(nrow(CropDF)/4)))  ## Test will be 1/4 of the data
```

```
## [1] 550
```

```
SAMPLE <- sample(nrow(CropDF), Size, replace = FALSE)

DF_Test_Crop<-CropDF[SAMPLE, ]
DF_Train_Crop<-CropDF[-SAMPLE, ]
```

Remove the labels and store them

```
DF_Test_Crop_Labels <- DF_Test_Crop$label
```

Remove the labels

```
DF_Test_Crop_NL<-DF_Test_Crop[ , -which(names(DF_Test_Crop) %in% c("label"))]
```

Check size

```
(ncol(DF_Test_Crop_NL))
```

```
## [1] 8
```

Training data

Copy the Labels

```
DF_Train_Crop_Labels <- DF_Train_Crop$label
```

Remove the labels

```
DF_Train_Crop_NL<-DF_Train_Crop[ , -which(names(DF_Train_Crop) %in% c("label"))]
head(DF_Train_Crop_NL)
```

```
##    N  P  K temperature humidity humidity_level       ph rainfall
## 1 90 42 43    20.87974 82.00274           High 6.502985 202.9355
## 2 85 58 41    21.77046 80.31964           High 7.038096 226.6555
## 4 74 35 40    26.49110 80.15836           High 6.980401 242.8640
## 5 78 42 42    20.13017 81.60487           High 7.628473 262.7173
## 7 69 55 38    22.70884 82.63941           High 5.700806 271.3249
## 8 94 53 40    20.27774 82.89409           High 5.718627 241.9742
```

Check size

```
(ncol(DF_Train_Crop_NL))
```

```
## [1] 8
```

NAIVE BAYES

Just FYI.....if memory or overflow issues.... ## memory.limit() #data=DF_Train[,1:5000] #(data[1:5, 1:5])

```
NB_e1071_2<-naiveBayes(DF_Train_Crop_NL,
                       DF_Train_Crop_Labels,
                       laplace = 1)

NB_e1071_Pred <- predict(NB_e1071_2, DF_Test_Crop_NL)

#NB_e1071_2
table(NB_e1071_Pred,DF_Test_Crop_Labels)
```

```
##              DF_Test_Crop_Labels
## NB_e1071_Pred apple banana blackgram chickpea coconut coffee cotton grapes jute
##   apple          27      0         0        0       0      0      0      0    0
##   banana          0     22         0        0       0      0      0      0    0
##   blackgram       0      0        24        0       0      0      0      0    0
##   chickpea        0      0         0       30       0      0      0      0    0
##   coconut         0      0         0        0      25      0      0      0    0
##   coffee          0      0         0        0       0     27      0      0    0
##   cotton          0      0         0        0       0      0     22      0    0
##   grapes          0      0         0        0       0      0      0     16    0
##   jute            0      0         0        0       0      0      0      0   27
##   kidneybeans     0      0         0        0       0      0      0      0    0
##   lentil          0      0         0        0       0      0      0      0    0
##   maize           0      0         0        0       0      0      0      0    0
##   mango           0      0         0        0       0      0      0      0    0
##   mothbeans       0      0         0        0       0      0      0      0    0
##   mungbean        0      0         0        0       0      0      0      0    0
##   muskmelon       0      0         0        0       0      0      0      0    0
##   orange          0      0         0        0       0      0      0      0    0
##   papaya          0      0         0        0       0      0      0      0    0
##   pigeonpeas      0      0         0        0       0      0      0      0    0
##   pomegranate     0      0         0        0       0      0      0      0    0
##   rice            0      0         0        0       0      0      0      0    2
##   watermelon      0      0         0        0       0      0      0      0    0
##              DF_Test_Crop_Labels
## NB_e1071_Pred kidneybeans lentil maize mango mothbeans mungbean muskmelon
##   apple                0      0     0     0         0        0         0
##   banana               0      0     0     0         0        0         0
##   blackgram            0      0     0     0         0        0         0
##   chickpea             0      0     0     0         0        0         0
##   coconut              0      0     0     0         0        0         0
##   coffee               0      0     0     0         0        0         0
```

```
##    cotton                0      0     2     0         0        0         0
##    grapes                0      0     0     0         0        0         0
##    jute                  0      0     0     0         0        0         0
##    kidneybeans          31      0     0     0         0        0         0
##    lentil                0     35     0     0         0        0         0
##    maize                 0      0    24     0         0        0         0
##    mango                 0      0     0    27         0        0         0
##    mothbeans             0      0     0     0        24        0         0
##    mungbean              0      0     0     0         0       22         0
##    muskmelon             0      0     0     0         0        0        17
##    orange                0      0     0     0         0        0         0
##    papaya                0      0     0     0         0        0         0
##    pigeonpeas            0      0     0     0         0        0         0
##    pomegranate           0      0     0     0         0        0         0
##    rice                  0      0     0     0         0        0         0
##    watermelon            0      0     0     0         0        0         0
##                DF_Test_Crop_Labels
## NB_e1071_Pred orange papaya pigeonpeas pomegranate rice watermelon
##    apple           0      0          0           0    0          0
##    banana          0      0          0           0    0          0
##    blackgram       0      0          0           0    0          0
##    chickpea        0      0          0           0    0          0
##    coconut         0      0          0           0    0          0
##    coffee          0      0          0           0    0          0
##    cotton          0      0          0           0    0          0
##    grapes          0      0          0           0    0          0
##    jute            0      0          0           0    3          0
##    kidneybeans     0      0          0           0    0          0
##    lentil          0      0          0           0    0          0
##    maize           0      0          0           0    0          0
##    mango           0      0          0           0    0          0
##    mothbeans       0      0          0           0    0          0
##    mungbean        0      0          0           0    0          0
##    muskmelon       0      0          0           0    0          0
##    orange         20      0          0           0    0          0
##    papaya          0     27          0           0    0          0
##    pigeonpeas      0      0         30           0    0          0
##    pomegranate     0      0          0          25    0          0
##    rice            0      0          0           0   19          0
##    watermelon      0      0          0           0    0         22
```

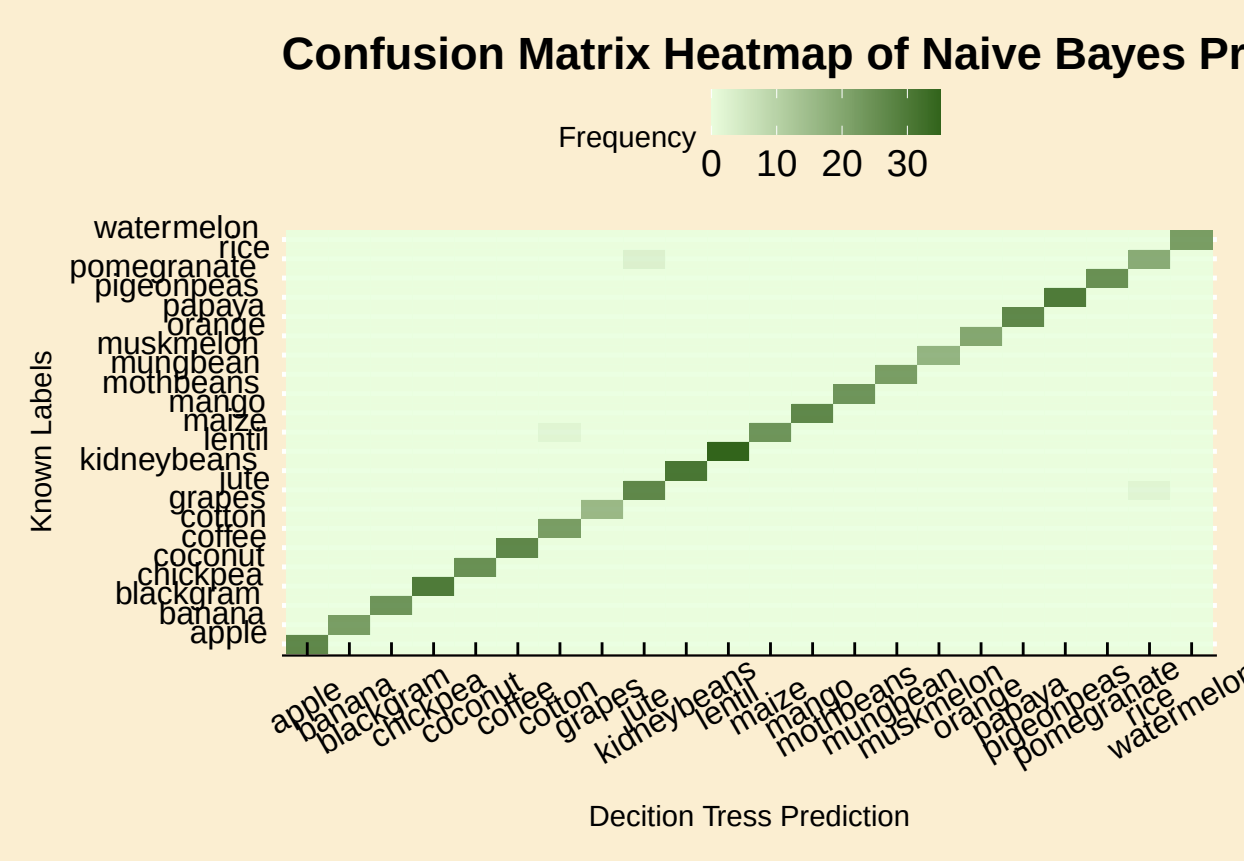
Create a function that generates heatmap from the confusion matrix

```
get_heatmap <- function(mapname, prediction){
  data <- as.data.frame(table(prediction,DF_Test_Crop_Labels))
plot <- ggplot(data) +
  geom_tile(mapping=aes(x=data[,1], y=data[,2],fill=data[,3])) +
  ylab("Known Labels") +
  xlab("Decition Tress Prediction") +
  theme_economist() +
  ggtitle(mapname) +
  scale_fill_gradient2(name="Frequency",low="#defccf", mid="#e9ffdfe6", high="#32641b") +
```

```
  theme(plot.background = element_rect(fill='#fbeed1',color="#fbeed1"),
        legend.background =element_rect(fill='#fbeed1',color="#fbeed1"),
        axis.text.x = element_markdown(size=12, angle = 30, vjust = 0.9, hjust=.6),
        axis.text.y = element_markdown(size=12, angle = 0, vjust = 0.2, hjust=1.1))
return(plot)
}
```

Use the function to generate heatmap

```
get_heatmap("Confusion Matrix Heatmap of Naive Bayes Prediction", NB_e1071_Pred)
```



Cross validation (CV) AND feature Imp

```
x <- subset(DF_Train_Crop_NL, select=-c(6))
test1 <- subset(DF_Test_Crop_NL, select=-c(6))
y <- DF_Train_Crop_Labels
model_nb = train(x,y,'nb',trControl=trainControl(method='cv',number=10))
```

```
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1
```

```
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 2

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 3

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 4

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 5

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 6

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 7

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 8

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 9

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 10

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 11

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 12

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 14

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 15

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 16

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 17

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 18
```

```
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 19

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 20

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 21

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 23

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 24

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 25

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 26

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 27

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 28

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 29

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 30

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 31

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 32

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 33

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 34

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 35
```

```
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 36

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 39

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 40

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 41

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 42

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 43

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 44

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 45

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 46

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 47

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 48

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 49

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 50

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 51

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 52
```

```
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 53

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 54

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 55

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 56

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 57

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 58

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 59

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 60

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 61

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 62

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 63

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 64

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 65

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 66

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 67

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 68

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 69
```

```
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 70

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 71

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 72

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 73

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 74

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 75

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 76

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 77

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 78

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 79

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 80

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 81

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 82

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 83

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 84

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 85

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 86
```

```
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 87

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 88

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 89

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 90

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 91

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 92

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 93

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 94

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 95

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 96

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 97

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 98

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 99

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 100

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## observation 162

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 165

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 151

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 152

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 153
```

```
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 154

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 155

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 156

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 157

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 158

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 159

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 160

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 161

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 162

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 163
```

```
model_nb$results
```

```
##   usekernel fL adjust  Accuracy     Kappa  AccuracySD     KappaSD
## 1     FALSE  0      1 0.9963671 0.9961930 0.005118861 0.005364214
## 2      TRUE  0      1 0.9981818 0.9980946 0.002927674 0.003067966
```

```
Predict <- predict(model_nb,test1)
```

```
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 1

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 2

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 3

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 4
```

```
## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 5

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 6

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 7

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 8

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 9

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 10

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 11

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 12

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 13

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 14

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 15

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 16

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 17

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 18

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 19

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 20

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 21
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 22

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 37

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 38
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 39

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 56
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## observation 73
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## observation 296

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 297
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 298

## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
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## Warning in FUN(X[[i]], ...): Numerical 0 probability for all classes with
## observation 550
```

```
table(Predict,DF_Test_Crop_Labels)
```

```
##             DF_Test_Crop_Labels
## Predict       apple banana blackgram chickpea coconut coffee cotton grapes jute
##   apple          27      0         0        0       0      0      0      0    0
##   banana          0     22         0        0       0      0      0      0    0
##   blackgram       0      0        24        0       0      0      0      0    0
##   chickpea        0      0         0       30       0      0      0      0    0
##   coconut         0      0         0        0      25      0      0      0    0
##   coffee          0      0         0        0       0     27      0      0    0
##   cotton          0      0         0        0       0      0     22      0    0
##   grapes          0      0         0        0       0      0      0     16    0
##   jute            0      0         0        0       0      0      0      0   28
##   kidneybeans     0      0         0        0       0      0      0      0    0
##   lentil          0      0         0        0       0      0      0      0    0
##   maize           0      0         0        0       0      0      0      0    0
##   mango           0      0         0        0       0      0      0      0    0
##   mothbeans       0      0         0        0       0      0      0      0    0
##   mungbean        0      0         0        0       0      0      0      0    0
##   muskmelon       0      0         0        0       0      0      0      0    0
##   orange          0      0         0        0       0      0      0      0    0
##   papaya          0      0         0        0       0      0      0      0    0
##   pigeonpeas      0      0         0        0       0      0      0      0    0
##   pomegranate     0      0         0        0       0      0      0      0    0
##   rice            0      0         0        0       0      0      0      0    1
##   watermelon      0      0         0        0       0      0      0      0    0
##             DF_Test_Crop_Labels
```

```
## Predict       kidneybeans lentil maize mango mothbeans mungbean muskmelon
##   apple                 0      0     0     0         0        0         0
##   banana                0      0     0     0         0        0         0
##   blackgram             0      0     0     0         0        0         0
##   chickpea              0      0     0     0         0        0         0
##   coconut               0      0     0     0         0        0         0
##   coffee                0      0     0     0         0        0         0
##   cotton                0      0     1     0         0        0         0
##   grapes                0      0     0     0         0        0         0
##   jute                  0      0     0     0         0        0         0
##   kidneybeans          31      0     0     0         0        0         0
##   lentil                0     35     0     0         1        0         0
##   maize                 0      0    25     0         0        0         0
##   mango                 0      0     0    27         0        0         0
##   mothbeans             0      0     0     0        23        0         0
##   mungbean              0      0     0     0         0       22         0
##   muskmelon             0      0     0     0         0        0        17
##   orange                0      0     0     0         0        0         0
##   papaya                0      0     0     0         0        0         0
##   pigeonpeas            0      0     0     0         0        0         0
##   pomegranate           0      0     0     0         0        0         0
##   rice                  0      0     0     0         0        0         0
##   watermelon            0      0     0     0         0        0         0
##              DF_Test_Crop_Labels
## Predict       orange papaya pigeonpeas pomegranate rice watermelon
##   apple            0      0          0           0    0          0
##   banana           0      0          0           0    0          0
##   blackgram        0      0          0           0    0          0
##   chickpea         0      0          0           0    0          0
##   coconut          0      0          0           0    0          0
##   coffee           0      0          0           0    0          0
##   cotton           0      0          0           0    0          0
##   grapes           0      0          0           0    0          0
##   jute             0      0          0           0    3          0
##   kidneybeans      0      0          0           0    0          0
##   lentil           0      0          0           0    0          0
##   maize            0      0          0           0    0          0
##   mango            0      0          0           0    0          0
##   mothbeans        0      0          0           0    0          0
##   mungbean         0      0          0           0    0          0
##   muskmelon        0      0          0           0    0          0
##   orange          20      0          0           0    0          0
##   papaya           0     27          0           0    0          0
##   pigeonpeas       0      0         30           0    0          0
##   pomegranate      0      0          0          25    0          0
##   rice             0      0          0           0   19          0
##   watermelon       0      0          0           0    0         22
```

Create a function of getting the Plot Variable performance graph

```
get_varImp <- function(model, mapname){
data <- varImp(model)
```

```
plot <- ggplot(data) +
  xlab("Variables") +
  ylab("Importance") +
  theme_economist() +
  ggtitle(mapname) +
  scale_fill_gradient2(name="Frequency",low="#defccf", mid="#e9ffdfe6", high="#32641b") +
  theme(plot.background = element_rect(fill='#fbeed1',color="#fbeed1"),
        legend.background =element_rect(fill='#fbeed1',color="#fbeed1"),
        axis.text.x = element_markdown(size=12, angle = 0, vjust = 0.9, hjust=.6),
        axis.text.y = element_markdown(size=12, angle = 0, vjust = 0.2, hjust=1.1))
  return(plot)
}

get_varImp(model_nb, "Variable Importance Performance graph")
```