NAME : MUHAMMAD RAEES (19122041) SECTION : 6TH A

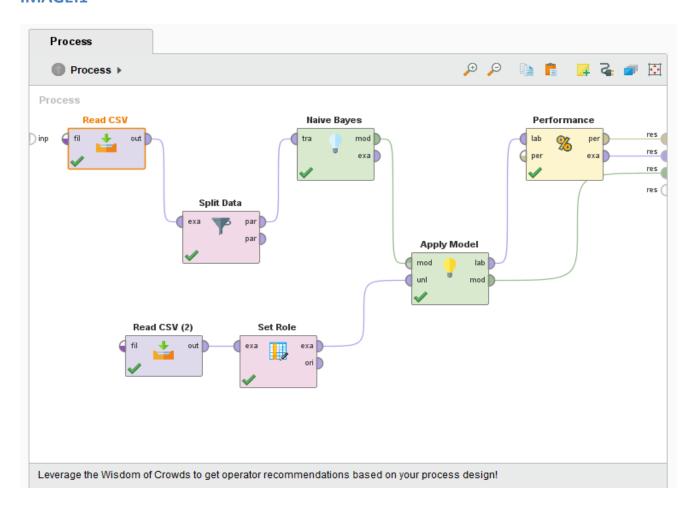
NAME : MUHAMMAD HUSSAIN (19122010) SUBJECT : DATA MINING

Term Project Final Design and Analysis

INSTALLATION OF TRAFFIC LIGHTS TO PREVENT ACCIDENT

TRAINING AND TESTING DESIGN:

IMAGE:1



SIMPLE DISTRIBUTION NAIVE BAYES:

IMAGE:2



SimpleDistribution

Distribution model for label attribute ACCIDENT

Class Not Possible (0.495)

8 distributions

Class Possible (0.505)

8 distributions

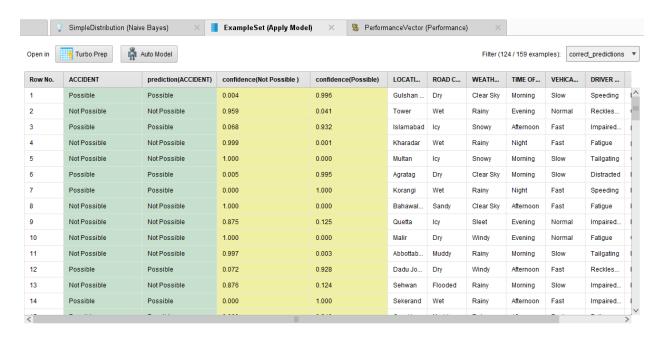
APPLY MODEL PREDICTION OF ALL DATA SET:

IMAGE:3



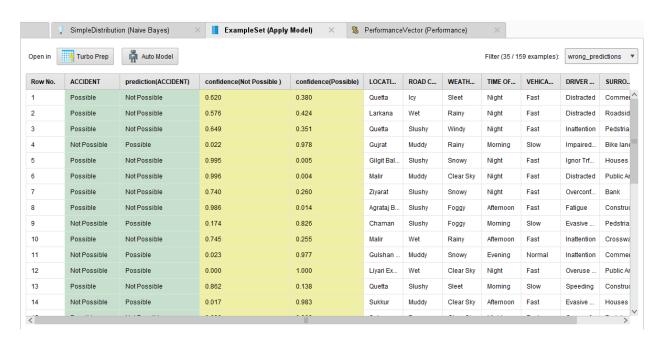
CORRECT PREDICTION OF 124 ROWS:

IMAGE:4



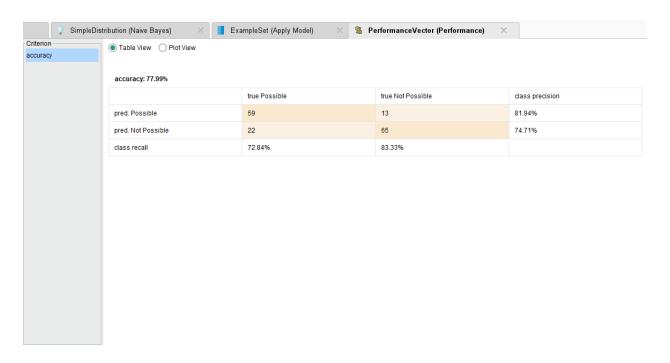
WRONG PREDICTION OF 35 ROWS:

IMAGE:5



NAIVE BAYES PERFORMACE ACURACY:

IMAGE:6



RESULT:

WE CREATE ANOTHER COLUMN OF LIGHTS INSTALLATION IN OUR **159 ROWS OF DATA** SET AS PER NAIVE BAYES PREDICTION WHERE WE PREDICT "POSSIBLE" AND "NOT POSSIBLE" CONDITION. NAIVE BAYES GIVE US **124 ROWS** OF DATA CORRECT PREDICTION ABOVE MENTION IN **IMAGE 4** AND **35 ROWS** OF DATA WRONG PREDICTION ABOVE METION IN **IMAGE 5.** PERFORMANCE **ACURACY IS 77.99%** WHICH IS BEST AS PER PREDICTION WE ANALYSIS AND DECIDE WHERE WE INSTALL THE LIGHTS OR WHER NOT THEN WE UPDATE LIGHTS INSTALLATION COLUMN "YES" AND "NO", YES PRESENT INSTALL THE LIGHT NO PRESENT DON'T INSTALL.