**CS 699 Data Mining Project Report**

**Analysis & Prediction of Road Crash for** **Allegheny County**

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# **Statement of Data Mining Goal**

## **Data Mining Goal**

1. Predict the injury severity into two groups (No injury and Injury).
2. Compare the performance between 20 models.

# **Detailed Description of The Dataset**

## **Dataset Introduction**

Fatalities resulting from vehicle crashes is one of the main causes of death in the United States. Dataset from Western Pennsylvania Regional Data Center contains locations and information about every crash incident reported to the police in Alleghney County (located in the heart of southwestern Pennsylvania, encompasses 130 municipalities. The county seat is Pittsburgh) from 2004 to 2018. Fields include injury severity, fatalities, information about the vehicles involved, location information, and factors that may have contributed to the crash. The purpose of this study is to develop a model to predict the injury severity outcomes for vulnerable road users involving car crashes using different classifier algorithms. The study also attempts to identify factors that are important in making an injury severity difference and to explore the impact of such explanatory variables.

**Dataset**

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Type | Codes | Description |
| CRASH\_MONTH | Nominal | * Jan * Feb * Mar * Apr * May * Jun * Jul * Aug * Sep * Oct * Nov * Dec | Month when the crash occurred |
| DAY\_OF\_WEEK | Nominal | * Sunday * Monday * Tuesday * Wednesday * Thursday * Friday * Saturday | Day of the Week code when crash occurred |
| ILLUMINATION | Nominal | * Daylight * Dark-no streetlights * Dark-street lights * Dusk * Dawn * Dark-unknown | Code that defines lighting at crash scene |
| WEATHER | Nominal | * No-adverse-conditions * Rain * Sleet (hail) * Snow * Fog | Code for the weather type at time of crash |
| ROAD\_CONDITION | Nominal | * Dry * Wet * Sand/mud/dirt/oil/gravel * Snow covered * Slush * Ice * Ice Patches * Water-standing-or-moving | Roadway Surface Condition Code |
| COLLISION\_TYPE | Nominal | |  | | --- | | * Non collision * Rear-end * Head-on * Rear-to-rear (Backing) * Angle * Sideswipe-same-direction * Sideswipe-opposite-direction * Hit fixed object * Hit pedestrian | | |  | | --- | | Collision category that defines the crash | |
| INTERSECT\_TYPE | Nominal | * Mid-block * Four-way intersection * T-intersection * Y-intersection * Traffic circle * Multi-leg intersection * On-ramp * Off-ramp * Crossover * Railroad-crossing | Code that defines the Intersection Type |
| LOCAL\_ROAD | Nominal | No / Yes | Local Road Indicator |
| TURNPIKE | Nominal | No / Yes | Turnpike Indicator |
| WET\_ROAD | Nominal | No / Yes | Wet Road Indicator |
| ICY\_ROAD | Nominal | No / Yes | Icy Road Indicator |
| REAR\_END | Nominal | No / Yes | Rear End Collision Indicator |
| HO\_OPPDIR\_SDSWP | Nominal | No / Yes | Head on or Side Swipe Indicator |
| HIT\_FIXED\_OBJECT | Nominal | No / Yes | Hit Fixed Object Indicator |
| SV\_RUN\_OFF\_RD | Nominal | No / Yes | Single Vehicle Run Off Road Indicator |
| WORK\_ZONE | Nominal | No / Yes | Work Zone Indicator |
| PROPERTY\_DAMAGE\_ONLY | Nominal | No / Yes | Property Damage Only Indicator |
| FATAL\_OR\_MAJ\_INJ | Nominal | No / Yes | Fatality or Major Injury Indicator |
| INJURY | Nominal | No / Yes | Injury Indicator |
| FATAL | Nominal | No / Yes | Fatality Indicator |
| INTERSECTION | Nominal | No / Yes | Intersection Indicator |
| UNSIGNALIZED\_INT | Nominal | No / Yes | Unsignalized Intersection Indicator |
| SCHOOL\_BUS | Nominal | No / Yes | School Bus Indicator |
| SCHOOL\_ZONE | Nominal | No / Yes | School Zone Indicator |
| HIT\_DEER | Nominal | No / Yes | Hit Deer Indicator |
| HIT\_TREE\_SHRUB | Nominal | No / Yes | Hit Tree or Shrub Indicator |
| HIT\_EMBANKMENT | Nominal | No / Yes | Hit Embankment Indicator |
| HIT\_POLE | Nominal | No / Yes | Hit Pole Indicator |
| HIT\_GDRAIL | Nominal | No / Yes | Hit Guide Rail Indicator |
| HIT\_GDRAIL\_END | Nominal | No / Yes | Hit Guide Rail End Indicator |
| HIT\_BARRIER | Nominal | No / Yes | Hit Barrier Indicator |
| HIT\_BRIDGE | Nominal | No / Yes | Hit Bridge Indicator |
| OVERTURNED | Nominal | No / Yes | Overturned Vehicle Indicator |
| MOTORCYCLE | Nominal | No / Yes | Motorcycle Indicator |
| BICYCLE | Nominal | No / Yes | |  | | --- | | Bicycle Indicator | |
| HVY\_TRUCK\_RELATED | Nominal | No / Yes | Heavy Truck Related Indicator |
| VEHICLE\_FAILURE | Nominal | No / Yes | Vehicle Failure Indicator |
| TRAIN\_TROLLEY | Nominal | No / Yes | Train or Trolley Indicator |
| PHANTOM\_VEHICLE | Nominal | No / Yes | Phantom Vehicle Indicator |
| ALCOHOL\_RELATED | Nominal | No / Yes | |  | | --- | | Alcohol Related Indicator | |
| DRINKING\_DRIVER | Nominal | No / Yes | Drinking Driver Indicator |
| UNDERAGE\_DRNK\_DRV | Nominal | No / Yes | Under-age drinking driver Indicator |
| UNLICENSED | Nominal | No / Yes | Unlicensed Driver Indicator |
| CELL\_PHONE | Nominal | No / Yes | |  | | --- | | Driver Using Cell Phone Indicator | |
| RUNNING\_RED\_LT | Nominal | No / Yes | Driver Running Red Light Indicator |
| TAILGATING | Nominal | No / Yes | Tailgating Indicator |
| CURVE\_DVR\_ERROR | Nominal | No / Yes | Curve in Road Driver Error Indicator |
| SPEEDING | Nominal | No / Yes | Speeding Indicator |
| SPEEDING\_RELATED | Nominal | No / Yes | Speeding Related Indicator |
| FATIGUE\_ASLEEP | Nominal | No / Yes | Fatigue or Asleep Indicator |
| UNBELTED | Nominal | No / Yes | Anyone in crash unbelted indicator |
| PEDESTRIAN | Nominal | No / Yes | Pedestrian Indicator |
| DISTRACTED | Nominal | No / Yes | Distracted Driver Indicator |
| CURVED\_ROAD | Nominal | No / Yes | Curve in Road |
| MC\_DRINKING\_DRIVER | Nominal | No / Yes | At least 1 Motorcycle driver has reported or suspected Alcohol Use |
| INJURY\_OR\_FATAL | Nominal | No / Yes | At least 1 Person Was Injured or Killed in the Crash |
| COMM\_VEHICLE | Nominal | No / Yes | |  | | --- | | Crash has at least 1 involved Commercial Vehicle | |
| IMPAIRED\_DRIVER | Nominal | No / Yes | At least One Driver was Impaired by Drugs or Alcohol |
| DEER\_RELATED | Nominal | No / Yes | Deer Related Indicator |
| ILLEGAL\_DRUG\_RELATED | Nominal | No / Yes | At Least 1 Driver or Pedestrian had reported or suspected Illegal Drug Use |
| ILLUMINATION\_DARK | Nominal | No / Yes | Illumination Indicates that the Crash Scene Lighting was Dark |
| MINOR\_INJURY | Nominal | No / Yes | At least 1 Person Sustained a Minor Injury |
| MODERATE\_INJURY | Nominal | No / Yes | At least 1 Person Sustained a Moderate Injury |
| MAJOR\_INJURY | Nominal | No / Yes | At least 1 Person Sustained a Major Injury |
| NHTSA\_AGG\_DRIVING | Nominal | No / Yes | The Crash meets the NHTSA definition of Aggressive Driving |
| RUNNING\_STOP\_SIGN | Nominal | No / Yes | Driver Running Stop Sign Indicator |
| TRAIN | Nominal | No / Yes | Train Indicator |
| TROLLEY | Nominal | No / Yes | Trolley Indicator |
| MAX\_SEVERITY\_LEVEL | **Nominal (Class label)** | * **Noinjury** * **Injury** | **Injury severity level of the crash** |

**Class Attribute**

"MAX\_SEVERITY\_LEVEL" attribute

**Dataset Description**

* Source: Western Pennsylvania Regional Data Center [[Link](https://data.wprdc.org/dataset/allegheny-county-crash-data)]

Data is provided by Pennsylvania Department of Transportation (PennDOT).

* The dataset consists of 69 categorical attributes.
* The dataset consists of 11,994 tuples.
* The "MAX\_SEVERITY\_LEVEL" attribute is used as the class label.

# **Detailed Description of Mining Tool(s) or Algorithms(s) Used**

## **Data Mining Tools**

* Weka

Weka is a data mining software that uses a collection of machine learning algorithms. These algorithms can be applied directly to the data or called from the Java code. Weka is collection of tools for: Regression, Clustering, Association, Data pre-processing, Classification, Visualization.

* R

R is a programming language and environment for statistical computing and graphics. R provides a wide variety of statistical (linear and nonlinear modeling, classical statistical tests, time-series analysis, classification, clustering, etc.) and graphical techniques, and is highly extensible.

## **Data Mining Algorithms**

We used 4 classifiers and 5 different feature selection algorithms on the dataset. Finally, we have 20 models with different combination of classifiers and feature selection algorithms)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Feature selection  Classifier | CfsSubset | CorrAttr | InfoGainAttr | GainRatioAttr | ClassifierAttrJ48 |
| IBk | Model 1 | Model 2 | Model 3 | Model 4 | Model 5 |
| Naïve Bayes | Model 6 | Model 7 | Model 8 | Model 9 | Model 10 |
| Random Forest | Model 11 | Model 12 | Model 13 | Model 14 | Model 15 |
| AdaBoostM1+Random Forest | Model 16 | Model 17 | Model 18 | Model 19 | Model 20 |

**Classifiers**

* K-Nearest Neighbor (IBk)

In Weka, this algorithm is called IBk (Instance Based Learner). It does not build a model, instead it generates a prediction for a test instance just-in-time. The IBk algorithm uses a distance measure to locate k “close” instances in the training data for each test instance and used those selection instances to make a prediction.

* Naïve Bayes

Naïve Bayes makes a naive assumption that each feature is independent of other features to make easier for classification.

* Random Forest

Random Forest is an ensemble learning algorithm that can be used for classification, regression and other tasks. It works by constructing a multitude of decision trees at training time and outputting the predicted class.

* AdaBoostM1 + Random Forest

AdaBoost is a boosting ensemble model. Boosting model learns from the previous mistakes to improve the accuracy. We used AdaBoostM1 and then run Random Forest algorithm to enhance the ability of prediction.

**Feature Selection Algorithms**

* CfsSubsetEval (Correlation-based Feature Selection)

CfsSubsetEval evaluates the worth of a subset of attributes by considering the individual predictive ability of each feature along with the degree of redundancy between them.

* CorrelationAttributeEval

CorrelationAttributeEval evaluates the worth of an attribute by measuring the correlation (Pearson's) between it and the class.

Nominal attributes are considered on a value by value basis by treating each value as an indicator. An overall correlation for a nominal attribute is arrived at via a weighted average.

* InfoGainAttributeEval

InfoGainAttributeEval evaluates the worth of an attribute by measuring the information gain with respect to the class.

* GainRatioAttrEval

GainRatioAttrEval evaluates the worth of an attribute by measuring the gain ratio with respect to the class.

* ClassifierAttrJ48

ClassifierAttributeEval evaluates the worth of an attribute by using a user-specified classifier. We used J48 (Decision Tree) as the classifier.

# **Detailed Description of Data Mining Procedure**

## **Exploratory Data Analysis**

We used Weka Explorer to implement exploratory data analysis on the original dataset we got from Western Pennsylvania Regional Data Center.

The original dataset consists 69 attributes, 12,537 instances and a multi-class class attribute. Weka misread the nominal or binominal data to numeric data because of the default setting, so we got a weird result. In order to get the correct information and to prepare for the following classification, we need to do pre-processing first.

File: Allegheny\_County\_Crash\_Data.csv (Original dataset)

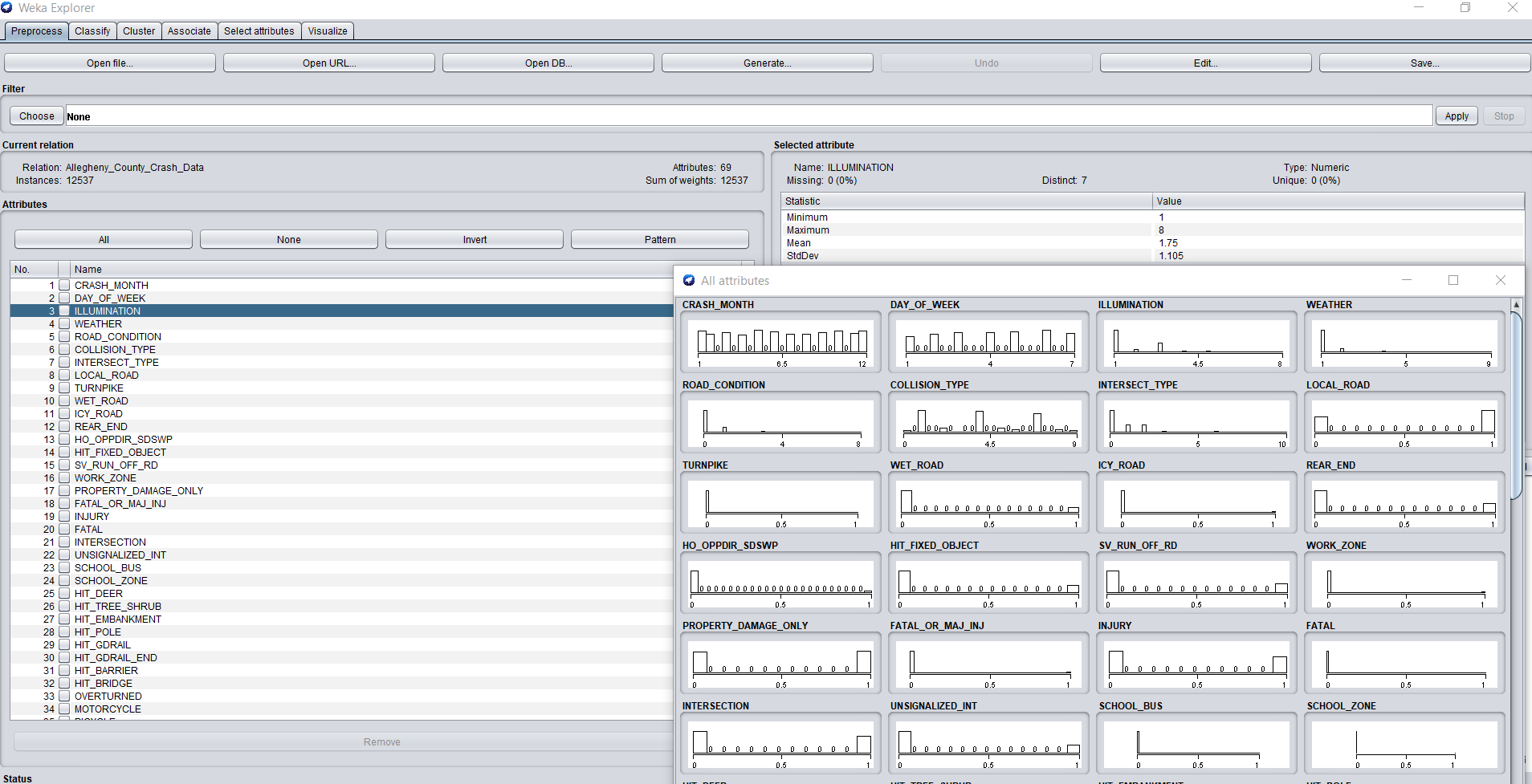


Figure - The original dataset screenshot in Weka

## **Pre-Processing**

***Data Cleaning***

* Converting numeric values to nominal values

We used R to convert all the numeric values to nominal values. For example, we convert 0 to “NO”, 1 to “Yes”

* Missing values
* Removed Tuples with Illumination = other or unknown (values 8,9)
* Removed Tuples with Road Conditions = Other
* Removed Tuples with weather codes = 6,7,8,9 (no information on these codes)
* Removed Tuples with Collision = (8,9) Other/Unknown
* Removed Tuples with Intersection = 10 (Other)

***Preprocessing with Class Attribute***

Class Attribute from the original dataset : Max Severity Level

0 - Not injured

1 - Killed

2 - Major injury

3 - Moderate injury

4 - Minor injury

8 - Injury/ Unknown Severity

9 – Unknown

We deleted unknown classes (8&9) and simplified it to make it a binary class.

Class Attribute from modified dataset : Max Severity Level

* **No injury**
* **Injury** : {Minor injury, Moderate injury, Major injury, Killed}

We compared the original class attribute and the new class attribute below. From Figure 3. We can see the number of “No Injury” (6,256 tuples) is relatively close to that of “Injury” (5,738 tuples), which is a balanced dataset. It is important because balanced dataset won’t need to do further techniques such as over-sampling/under-sampling to deal with biased and inaccurate result.

File: Allegheny\_county\_crash\_data\_nominal2.csv (Modified dataset)

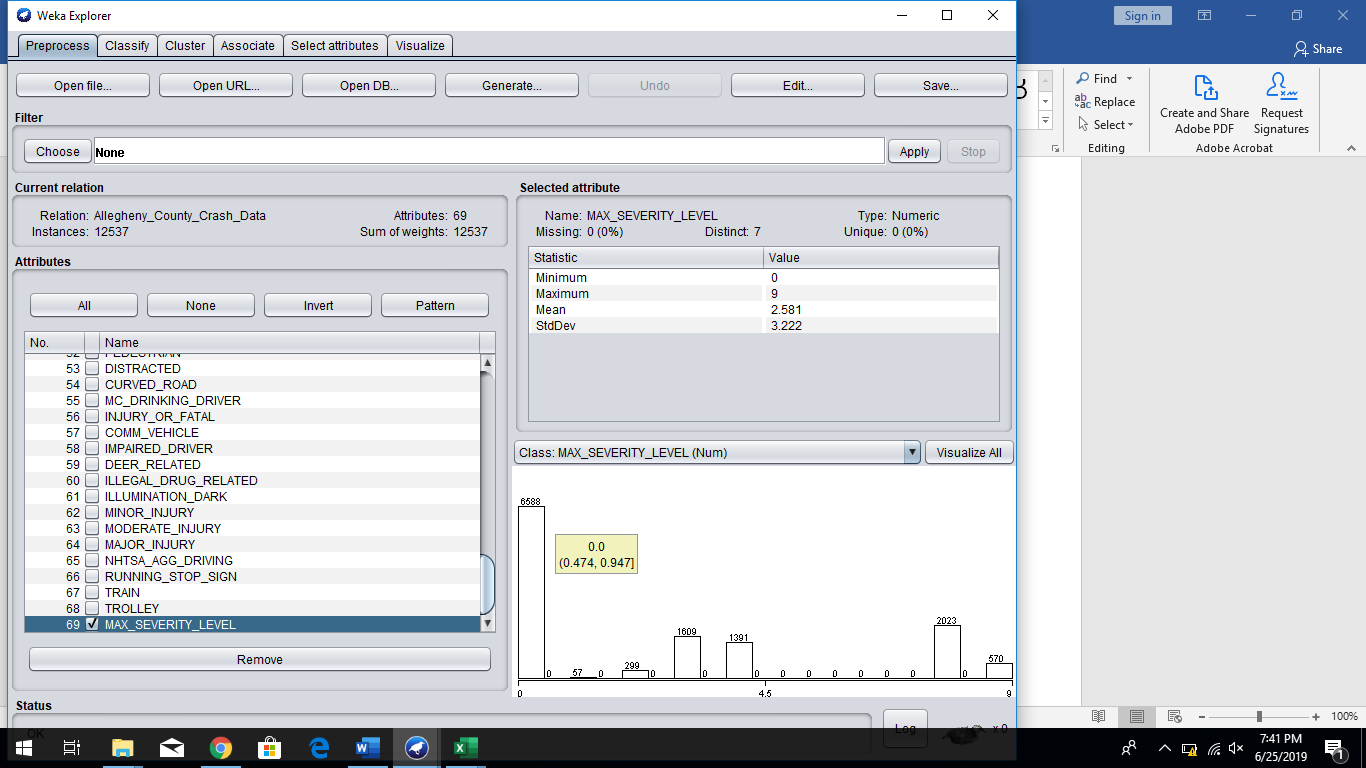


Figure - Original class attribute distribution (from Original dataset)

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFR6dSBQaW4gS3VvAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMxNwAAkpIAAgAAAAMxNwAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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/5Nz//ABdH/Cn/AAL/ANAP/wAm5/8A4uj/AF0y/wDkn90f/kg+rzPl6ivqH/hT/gX/AKAf/k3P/wDF0f8ACn/Av/QD/wDJuf8A+Lo/10y/+Sf3R/8Akg+rzPl6ivqH/hT/AIF/6Af/AJNz/wDxdH/Cn/Av/QD/APJuf/4uj/XTL/5J/dH/AOSD6vM+XqK+of8AhT/gX/oB/wDk3P8A/F0f8Kf8C/8AQD/8m5//AIuj/XTL/wCSf3R/+SD6vM+XqK+of+FP+Bf+gH/5Nz//ABdH/Cn/AAL/ANAP/wAm5/8A4uj/AF0y/wDkn90f/kg+rzPl6ivqH/hT/gX/AKAf/k3P/wDF0f8ACn/Av/QD/wDJuf8A+Lo/10y/+Sf3R/8Akg+rzPl6ivqH/hT/AIF/6Af/AJNz/wDxdH/Cn/Av/QD/APJuf/4uj/XTL/5J/dH/AOSD6vM+XqK+of8AhT/gX/oB/wDk3P8A/F0f8Kf8C/8AQD/8m5//AIuj/XTL/wCSf3R/+SD6vM+XqK+of+FP+Bf+gH/5Nz//ABdH/Cn/AAL/ANAP/wAm5/8A4uj/AF0y/wDkn90f/kg+rzPl6ivqH/hT/gX/AKAf/k3P/wDF0f8ACn/Av/QD/wDJuf8A+Lo/10y/+Sf3R/8Akg+rzPl6ivqH/hT/AIF/6Af/AJNz/wDxdH/Cn/Av/QD/APJuf/4uj/XTL/5J/dH/AOSD6vM+XqK+of8AhT/gX/oB/wDk3P8A/F0f8Kf8C/8AQD/8m5//AIuj/XTL/wCSf3R/+SD6vM+XqK+of+FP+Bf+gH/5Nz//ABdH/Cn/AAL/ANAP/wAm5/8A4uj/AF0y/wDkn90f/kg+rzPl6ivqH/hT/gX/AKAf/k3P/wDF0f8ACn/Av/QD/wDJuf8A+Lo/10y/+Sf3R/8Akg+rzPl6ivqH/hT/AIF/6Af/AJNz/wDxdH/Cn/Av/QD/APJuf/4uj/XTL/5J/dH/AOSD6vM+XqK+of8AhT/gX/oB/wDk3P8A/F0f8Kf8C/8AQD/8m5//AIuj/XTL/wCSf3R/+SD6vM+XqK+of+FP+Bf+gH/5Nz//ABdH/Cn/AAL/ANAP/wAm5/8A4uj/AF0y/wDkn90f/kg+rzPl6ivqH/hT/gX/AKAf/k3P/wDF0f8ACn/Av/QD/wDJuf8A+Lo/10y/+Sf3R/8Akg+rzPl6ivqH/hT/AIF/6Af/AJNz/wDxdH/Cn/Av/QD/APJuf/4uj/XTL/5J/dH/AOSD6vM+XqK+of8AhT/gX/oB/wDk3P8A/F0f8Kf8C/8AQD/8m5//AIuj/XTL/wCSf3R/+SD6vM+XqK+of+FP+Bf+gH/5Nz//ABdH/Cn/AAL/ANAP/wAm5/8A4uj/AF0y/wDkn90f/kg+rzPl6ug8Af8AJSvDP/YXtf8A0ctfQP8Awp/wL/0A/wDybn/+Lqxp/wALfB2l6lbahY6P5V1aTJPDJ9qmbY6kMpwXIOCBweKyr8YYCpSlBQndprZf/JDVCSdz1miuf/tO8/57f+Oj/Cj+07z/AJ7f+Oj/AAr8q5Wd1zoKK5/+07z/AJ7f+Oj/AAo/tO8/57f+Oj/CjlYXOgorn/7TvP8Ant/46P8ACj+07z/nt/46P8KOVhc6Ciuf/tO8/wCe3/jo/wAKP7TvP+e3/jo/wo5WFzoKK5/+07z/AJ7f+Oj/AAo/tO8/57f+Oj/CjlYXOgrG8Zf8iLr3/YNuP/RTVB/ad5/z2/8AHR/hUF5cS6hY3Fndt5lvcRNFKmANysMEZHI4PaplBuLRtQqKnVjN7Jp/ifLVFe8f8K38Kf8AQK/8mZf/AIqj/hW/hT/oFf8AkzL/APFV4X9l1u6/H/I/Vf8AXbLv5J/dH/5I8Hor3j/hW/hT/oFf+TMv/wAVR/wrfwp/0Cv/ACZl/wDiqP7Lrd1+P+Qf67Zd/JP7o/8AyR4PRXvH/Ct/Cn/QK/8AJmX/AOKo/wCFb+FP+gV/5My//FUf2XW7r8f8g/12y7+Sf3R/+SPB6K94/wCFb+FP+gV/5My//FUf8K38Kf8AQK/8mZf/AIqj+y63dfj/AJB/rtl38k/uj/8AJHg9Fe8f8K38Kf8AQK/8mZf/AIqj/hW/hT/oFf8AkzL/APFUf2XW7r8f8g/12y7+Sf3R/wDkjweiveP+Fb+FP+gV/wCTMv8A8VR/wrfwp/0Cv/JmX/4qj+y63dfj/kH+u2XfyT+6P/yR4PRXvH/Ct/Cn/QK/8mZf/iqP+Fb+FP8AoFf+TMv/AMVR/Zdbuvx/yD/XbLv5J/dH/wCSPB6K94/4Vv4U/wCgV/5My/8AxVH/AArfwp/0Cv8AyZl/+Ko/sut3X4/5B/rtl38k/uj/APJHg9Fe8f8ACt/Cn/QK/wDJmX/4qj/hW/hT/oFf+TMv/wAVR/Zdbuvx/wAg/wBdsu/kn90f/kjweiveP+Fb+FP+gV/5My//ABVH/Ct/Cn/QK/8AJmX/AOKo/sut3X4/5B/rtl38k/uj/wDJHg9Fe8f8K38Kf9Ar/wAmZf8A4qj/AIVv4U/6BX/kzL/8VR/Zdbuvx/yD/XbLv5J/dH/5I8Hor3j/AIVv4U/6BX/kzL/8VR/wrfwp/wBAr/yZl/8AiqP7Lrd1+P8AkH+u2XfyT+6P/wAkeD0V7x/wrfwp/wBAr/yZl/8AiqP+Fb+FP+gV/wCTMv8A8VR/Zdbuvx/yD/XbLv5J/dH/AOSPB6K94/4Vv4U/6BX/AJMy/wDxVH/Ct/Cn/QK/8mZf/iqP7Lrd1+P+Qf67Zd/JP7o//JHg9Fe8f8K38Kf9Ar/yZl/+Ko/4Vv4U/wCgV/5My/8AxVH9l1u6/H/IP9dsu/kn90f/AJI8Hor3j/hW/hT/AKBX/kzL/wDFUf8ACt/Cn/QK/wDJmX/4qj+y63dfj/kH+u2XfyT+6P8A8keD0V7x/wAK38Kf9Ar/AMmZf/iqP+Fb+FP+gV/5My//ABVH9l1u6/H/ACD/AF2y7+Sf3R/+SPB6K94/4Vv4U/6BX/kzL/8AFUf8K38Kf9Ar/wAmZf8A4qj+y63dfj/kH+u2XfyT+6P/AMkeD0V7x/wrfwp/0Cv/ACZl/wDiqP8AhW/hT/oFf+TMv/xVH9l1u6/H/IP9dsu/kn90f/kjweiveP8AhW/hT/oFf+TMv/xVH/Ct/Cn/AECv/JmX/wCKo/sut3X4/wCQf67Zd/JP7o//ACR4PRXvH/Ct/Cn/AECv/JmX/wCKo/4Vv4U/6BX/AJMy/wDxVH9l1u6/H/IP9dsu/kn90f8A5I8Hor3j/hW/hT/oFf8AkzL/APFUf8K38Kf9Ar/yZl/+Ko/sut3X4/5B/rtl38k/uj/8keD0V7x/wrfwp/0Cv/JmX/4qj/hW/hT/AKBX/kzL/wDFUf2XW7r8f8g/12y7+Sf3R/8Akjwetnwb/wAj1oP/AGErf/0atev/APCt/Cn/AECv/JmX/wCKqez8BeG9Pvre8tNN8u4t5Vlifz5DtZTkHBbB5HeqjltZSTuvx/yMa/GeX1KUoKE7tNbR/wDkj02iuf8A7TvP+e3/AI6P8KP7TvP+e3/jo/wr3eVn5Vc6Ciuf/tO8/wCe3/jo/wAKP7TvP+e3/jo/wo5WFzoKK5/+07z/AJ7f+Oj/AAoo5WFz/9k=)

Figure - New class attribute distribution (from modified dataset)

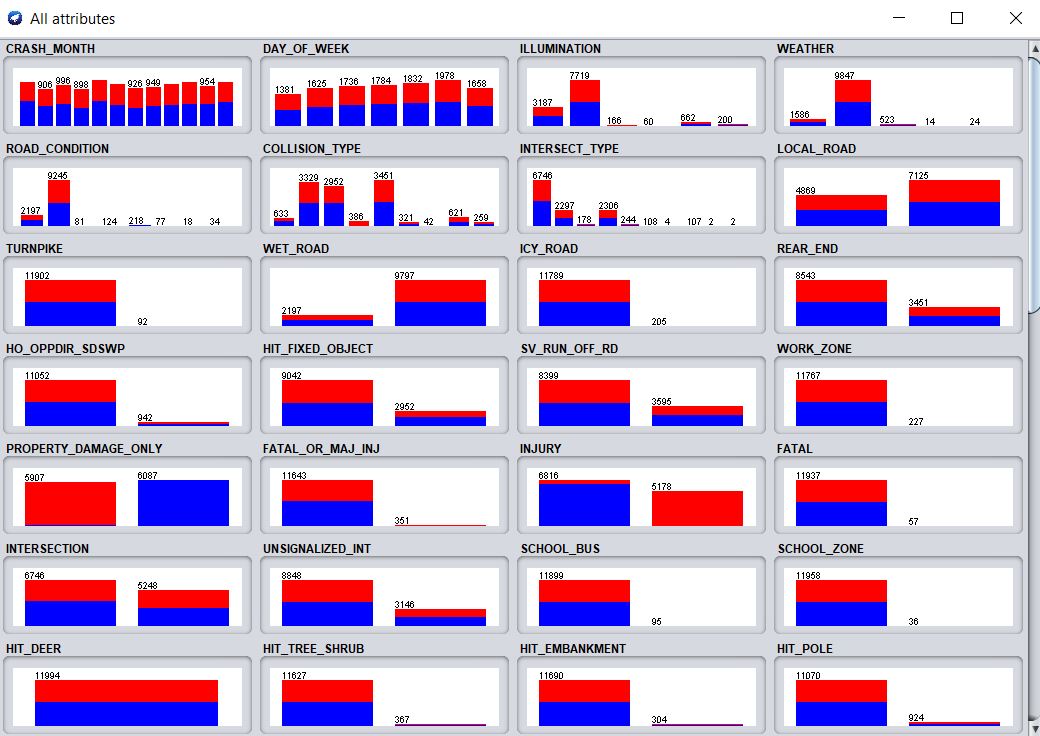
****

Figure 4 – Part of attribute distribution (from modified dataset)

**Data Splitting**

* We split the new dataset (Allegheny\_county\_crash\_data\_nominal2.csv) to training dataset and test dataset.
* Training/Testing stratification based on class followed the Word Document: “how-to-split-dataset-to-training-and-test.docx”
* Training dataset - File: Allegheny\_county\_crash\_data\_nominal2\_training.arff
* Test dataset - File: Allegheny\_county\_crash\_data\_nominal2\_test.arff

***Feature Selection***

We implemented 5 different attribute selection algorithms on training dataset using Weka, and manually selected attributes for test dataset in accordance with the training dataset’s result. ***(See Appendix A for list of results of feature selection algorithms on the 1training dataset)***

**Workflow**

Training dataset

**ClassifierAttrIBk4**

**InfoGainAttributeEval**

**CfsSubsetEval**

**GainRatioAttrEval**

**CorrelationAttributeEval**

classifierAttribEvalTrain

InfoRatioAttrEvalTrain

InfoGainAttrEvalTrain

CorrAttribEvalTrain

CfsSubsetEvalTrain

Test dataset

**Manually create test dataset based on training dataset with different attribute selection algorithms**

classifierAttribEvalTest

InfoRatioAttrEvalTest

InfoGainAttrEvalTest

CfsSubsetEvalTest

CorrAttribEvalTest

# **Data Mining Result and Evaluation**

We used 5 different test datasets (created with 5 attribute selection algorithms) to validate 20 trained models. ***(See Appendix B for summary data of 20 models)***

**Table 1 – Model Performance Measures**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Model | Accuracy | ROC Area | F-Measure | TPR | FPR |
| **CfsSubset\_kNN (k=4)** | **98.76%** | **0.999** | **0.988** | **0.988** | **0.011** |
| **CfsSubset\_Naive bayes** | **98.76%** | **0.999** | **0.988** | **0.988** | **0.011** |
| **CfsSubset\_Random Forest (k=4)** | **98.76%** | **0.999** | **0.988** | **0.988** | **0.011** |
| **CfsSubset\_Adaboost + Random Forest (k=4)** | **98.76%** | **0.999** | **0.988** | **0.988** | **0.011** |
| **CorrelationAttribute\_kNN (k=4)** | **98.76%** | **0.999** | **0.988** | **0.988** | **0.011** |
| **CorrelationAttribute\_Naive bayes** | **95.70%** | **0.999** | **0.957** | **0.957** | **0.047** |
| **CorrelationAttribute\_Random Forest (k=4)** | **98.76%** | **0.999** | **0.988** | **0.988** | **0.011** |
| **CorrelationAttribute\_Adaboost + Random Forest (k=4)** | **98.76%** | **0.999** | **0.988** | **0.988** | **0.011** |
| **InfoGainAttribute\_kNN (k=4)** | **98.76%** | **0.999** | **0.988** | **0.988** | **0.011** |
| **InfoGainAttribute\_Naive bayes** | **95.70%** | **0.999** | **0.957** | **0.957** | **0.047** |
| **InfoGainAttributeRandom Forest (k=4)** | **98.79%** | **0.999** | **0.988** | **0.988** | **0.011** |
| **InfoGainAttribute\_Adaboost + Random Forest (k=4)** | **98.79%** | **0.999** | **0.988** | **0.988** | **0.011** |
| **GainRatioAttribute\_kNN (k=4)** | **98.74%** | **0.999** | **0.987** | **0.987** | **0.012** |
| **GainRatioAttribute\_Naive bayes** | **95.70%** | **0.999** | **0.957** | **0.957** | **0.047** |
| **GainRatioAttribute\_Random Forest (k=4)** | **98.79%** | **0.999** | **0.988** | **0.988** | **0.011** |
| **GainRatioAttribute\_Adaboost + Random Forest (k=4)** | **98.76%** | **0.999** | **0.988** | **0.988** | **0.011** |
| **ClassifierAttribute\_kNN (k=4)** | **98.74%** | **0.999** | **0.987** | **0.987** | **0.012** |
| **ClassifierAttribute\_Naive bayes** | **95.70%** | **0.999** | **0.957** | **0.957** | **0.047** |
| **ClassifierAttribute\_Random Forest (k=4)** | **98.79%** | **0.999** | **0.988** | **0.988** | **0.011** |
| **ClassifierAttribute\_Adaboost + Random Forest (k=4)** | **98.76%** | **0.999** | **0.988** | **0.988** | **0.011** |

**Table 2 – Accuracy Comparison**

A screenshot of a cell phone

Description automatically generated

**ROC**

We used *KnowledgeFlow* in Weka to set up the KF-procedure and generate ROC curves for every model.

![A close up of a map

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFR6dSBQaW4gS3VvAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM0NQAAkpIAAgAAAAM0NQAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Knowledge Flow procedure in Weka

**ROC – CfsSubset**

![A screenshot of a social media post

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFR6dSBQaW4gS3VvAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMwNgAAkpIAAgAAAAMwNgAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Model 1, Model 6, Model 11, Model 16

**ROC – CorrAttribute**

![A screenshot of a social media post

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Model 2, Model 7, Model 12, Model 17

**ROC – InfoGainAttribute**

![A screenshot of a social media post

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFR6dSBQaW4gS3VvAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM0OQAAkpIAAgAAAAM0OQAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Model 3, Model 8, Model 13, Model 18

**ROC – GainRatioAttribute**

**![A screenshot of a social media post

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFR6dSBQaW4gS3VvAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMzNwAAkpIAAgAAAAMzNwAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Model 4, Model 9, Model 14, Model 19

**ROC – ClassifierAttribute (J48)**![A screenshot of a social media post

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFR6dSBQaW4gS3VvAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMzMgAAkpIAAgAAAAMzMgAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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2P2p3t3kR5Gspki3RvsdVlZAjEMCMAnofQ1qVzHhzQtT0vV7ma4MFvbS+a0kVveTTJdTPJvMwjk4tuTIfLQsD5vJOwE9PQAUUUUwCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAy/Ek2mQeGNRfXw50s27pd+XHI58phtbiMFsYJyR0GTxjNalYnjCw1LVvCeoaXo8Vq89/byWrNdTtEsaujLvBVHLEEj5cDPPIrTsXvJLNG1KCC3uTnfHbzGVF5OMOVUnjH8I9OetICxRRRTAxdd+7H9aKNd+7H9aKQDNE/5Deof9cIP/AEKWr+lf8eEf0qhon/Ib1D/rhB/6FLWjFay2zFbcoYichWOCvtWlT4vkvyRnT+H5v82XKKgxcekf/fR/woxcekf/AH0f8KzNCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgCeioMXHpH/30f8KMXHpH/wB9H/CgDL18/LH9aKunT/tEhe+2yAcKgzge9FAH/9k=)

Model 5, Model 10, Model 15, Model 20

We decided to focus our comparison of performance on percent accuracy and F-measure (for the weighted average of the classes). These parameters were chosen based upon the binary nature of our model. Likewise, the higher the accuracy, the lower the error rate. Random Forest consistently performed as one of the highest classifiers in terms of percent accuracy and F-measure (the harmonic mean of precision and recall). Random Forest classifiers were also highest when paired with these Selection Attributes: InfoRatio, GainRatio, and ClassifierAttribute in terms of percent accuracy (98.787%) and F-measure (0.988), respectively.

In order to tease out differences in these Attribute Selections for this model, we varied multiple settings in the Random Forest classifier (including k = 0, 2, 3, 4, 16, smaller batch size (n = 25 versus 100), breaks ties randomly, number of iterations from 100 to 1000, data not shown). While none of these changes resulted in a change in value of accuracy or F-measure in the test data sets for InfoRatio, GainRatio, or ClassifierAttribute with Random Forest classification, there were very modest changes in the training data such as 1-3 FPs. Likewise, none of the proposed changes in model parameters resulted in changes in False Negatives (though the models all showed at most 48 FNs out of the total 3957 instances in the Test Set).

Therefore, we evaluated our best model based on the information that would be given with the attributes provided in each selection algorithm. Weka has an output of “Attribute importance based on average impurity decrease (and number of nodes using that attribute)” for Random Forest. Based on using fewer attributes (10) to achieve the same results for accuracy and F-score, InfoGain, Random Forest, k=4 is our best model for this dataset.

For each selection algorithm, we have the following output:

***InfoGain, Random Forest, k = 4***

weka.classifiers.trees.RandomForest -K 4 -M 1.0 -V 0.001 -S 1 -do-not-check-capabilities

Attribute importance based on average impurity decrease (and number of nodes using that attribute)

0.46 ( 232) PROPERTY\_DAMAGE\_ONLY

0.33 ( 83) INJURY

0.3 ( 118) INJURY\_OR\_FATAL

0.09 ( 32) MODERATE\_INJURY

0.09 ( 104) COLLISION\_TYPE

0.09 ( 22) MINOR\_INJURY

0.03 ( 58) FATAL\_OR\_MAJ\_INJ

0.02 ( 125) MOTORCYCLE

0.01 ( 13) PEDESTRIAN

0 ( 1) MAJOR\_INJURY

***GainRatio, Random Forest, k = 4***

weka.classifiers.trees.RandomForest -K 4 -M 1.0 -V 0.001 -S 1 -do-not-check-capabilities

Attribute importance based on average impurity decrease (and number of nodes using that attribute)

0.46 ( 438) PROPERTY\_DAMAGE\_ONLY

0.37 ( 149) INJURY

0.37 ( 137) INJURY\_OR\_FATAL

0.17 ( 165) COLLISION\_TYPE

0.11 ( 54) MINOR\_INJURY

0.08 ( 50) MODERATE\_INJURY

0.04 ( 291) OVERTURNED

0.04 ( 40) FATAL

0.03 ( 68) FATAL\_OR\_MAJ\_INJ

0.03 ( 150) MOTORCYCLE

0.02 ( 10) MC\_DRINKING\_DRIVER

0.02 ( 454) UNBELTED

0.01 ( 19) MAJOR\_INJURY

0.01 ( 33) PEDESTRIAN

0.01 ( 23) BICYCLE

0 ( 13) TRAIN\_TROLLEY

0 ( 5) TRAIN

***ClassifierAtt(J48), Random Forest, k =4***

weka.classifiers.trees.RandomForest -K 4 -M 1.0 -V 0.001 -S 1 -do-not-check-capabilities

Attribute importance based on average impurity decrease (and number of nodes using that attribute)

0.47 ( 298) PROPERTY\_DAMAGE\_ONLY

0.34 ( 91) INJURY

0.25 ( 140) INJURY\_OR\_FATAL

0.13 ( 132) COLLISION\_TYPE

0.09 ( 23) MINOR\_INJURY

0.06 ( 37) MODERATE\_INJURY

0.03 ( 45) FATAL\_OR\_MAJ\_INJ

0.02 ( 132) MOTORCYCLE

0.02 ( 9) PEDESTRIAN

0.02 ( 413) UNBELTED

0 ( 2) MAJOR\_INJURY

# **Discussion & Conclusion**

1. We believe that based on achieving high accuracy and F-score, InfoGain attribute selection with Random Forest classification (k=4) was our best model for classifying No Injury versus Injury. While other models achieved the same results, InfoGain was able to use one less attribute than Classification Attribute (J48). The Classification Attribute showed “UNBELTED” contributing 0.02 to the model; whereas, InfoGain did not have this attribute in its model. One thought is that “UNBELTED” is actually a redundant attribute. Regression analysis could be done to further analyze the two models, if there is numeric representation of this data. One other note, while CfsSubset + Random Forest used fewer attributes (4), the model had lower accuracy and F-score than InfoGain + Random Forest. Therefore, performance alone is not based on the fewest number of attributes, but also the accuracy or error rate (1-accuracy).

1. One of biggest lessons of this project was that class definition can assist in determining how robustly the model classifies the data. If we used more classes, this dataset would have resulted in an unbalanced distribution of classes (skewed right). The trade-off in having a robust model (No Injury versus Injury) was that we lost learning about the granularity within the types of injuries. If we were to do this project again, perhaps we could keep skewed class distribution, and look at other performance measures, such as specificity. Another way of approaching this could be to remove the non-injured class and minor versus major injuries/death. Knowing how to predict major injuries, could result in better preventative actions or local ordinances to reinforce preventative actions.
2. Overall, we were able to predict non-injuries from road accidents from the Allegheny dataset (2004-2018) with high accuracy using InfoGain Attribute Selection and Random Forest. The FPR (FP/N) was also very low (0.011), thus also leading us to conclude that we have a model that will not predict non-injuries as injuries.
3. Clearly state what each team member did

**Together**: Decided overall performance evaluation criteria and overall strategy.

**SL**:

* + - Provided a precursor dataset to the dataset used,
    - Cleaned dataset (converted numeric attributes to nominal dataset, removed data that was unknown or other, did the final divide of classes to make binary).
    - Split the dataset into training and testing files.
    - File: Allegheny\_county\_crash\_data\_nominal2\_training.arff

File: Allegheny\_county\_crash\_data\_nominal2\_test.arff

* + - Selected Attributes for CfsSubset and CorrelationAttrEval for Models:

1,6,11,16,2,7,12,17.

* + - Provided R plots to display thresholds for Attributes.
    - Performed variation analysis to determine the best Attribute Selection algorithm when three were very similar.
    - Wrote Intermediate Report.
    - Wrote report from Data Mining Result and Evaluation to Conclusion.

**TK**:

* + - Found the dataset for this study.
    - Wrote project proposal including statement of data mining, description of dataset.
    - Described each attribute from the original dataset.
    - Generated KF-Procedure and all ROC diagrams
    - Selected Attributes for GainRatio, InfoGain, and ClassifierAttr(J48) for Models: 3,8,13,18,4,9,14,19,5,10,15,20,
    - Wrote Preliminary Report,
    - Created Performance Criteria plot and table,
    - Wrote report up to Data Mining Result and Evaluation.
    - Generated Appendices
    - Organized dataset files & folders

# **Appendix A**

**Feature Selection on Training Dataset using Weka Explorer**

* **CfsSubset**

On Allegheny\_county\_crash\_data\_nominal2\_training.arff, in Weka used “Select Attributes” tab and set:

* Attribute Evaluator: CfsSubsetEval -P 1 -E 1
* Search Method: BestFirst -D 1 -N 5

File: CfsSubsetEvalTrain.arff (training dataset)

File: CfsSubsetEvalTest.arff (test dataset)

=== Run information ===

Evaluator: weka.attributeSelection.CfsSubsetEval -P 1 -E 1

Search: weka.attributeSelection.BestFirst -D 1 -N 5

Relation: Allegheny\_County\_Crash\_Data\_Nominal-weka.filters.supervised.instance.Resample-B0.0-S1-Z33.0-no-replacement-V

Instances: 8037

Attributes: 69

CRASH\_MONTH

DAY\_OF\_WEEK

ILLUMINATION

WEATHER

ROAD\_CONDITION

COLLISION\_TYPE

INTERSECT\_TYPE

LOCAL\_ROAD

TURNPIKE

WET\_ROAD

ICY\_ROAD

REAR\_END

HO\_OPPDIR\_SDSWP

HIT\_FIXED\_OBJECT

SV\_RUN\_OFF\_RD

WORK\_ZONE

PROPERTY\_DAMAGE\_ONLY

FATAL\_OR\_MAJ\_INJ

INJURY

FATAL

INTERSECTION

UNSIGNALIZED\_INT

SCHOOL\_BUS

SCHOOL\_ZONE

HIT\_DEER

HIT\_TREE\_SHRUB

HIT\_EMBANKMENT

HIT\_POLE

HIT\_GDRAIL

HIT\_GDRAIL\_END

HIT\_BARRIER

HIT\_BRIDGE

OVERTURNED

MOTORCYCLE

BICYCLE

HVY\_TRUCK\_RELATED

VEHICLE\_FAILURE

TRAIN\_TROLLEY

PHANTOM\_VEHICLE

ALCOHOL\_RELATED

DRINKING\_DRIVER

UNDERAGE\_DRNK\_DRV

UNLICENSED

CELL\_PHONE

RUNNING\_RED\_LT

TAILGATING

CURVE\_DVR\_ERROR

SPEEDING

SPEEDING\_RELATED

FATIGUE\_ASLEEP

UNBELTED

PEDESTRIAN

DISTRACTED

CURVED\_ROAD

MC\_DRINKING\_DRIVER

INJURY\_OR\_FATAL

COMM\_VEHICLE

IMPAIRED\_DRIVER

DEER\_RELATED

ILLEGAL\_DRUG\_RELATED

ILLUMINATION\_DARK

MINOR\_INJURY

MODERATE\_INJURY

MAJOR\_INJURY

NHTSA\_AGG\_DRIVING

RUNNING\_STOP\_SIGN

TRAIN

TROLLEY

MAX\_SEVERITY\_LEVEL

Evaluation mode: evaluate on all training data

=== Attribute Selection on all input data ===

Search Method:

Best first.

Start set: no attributes

Search direction: forward

Stale search after 5 node expansions

Total number of subsets evaluated: 409

Merit of best subset found: 0.905

Attribute Subset Evaluator (supervised, Class (nominal): 69 MAX\_SEVERITY\_LEVEL):

CFS Subset Evaluator

Including locally predictive attributes

Selected attributes: 5,17,33,56 : 4

ROAD\_CONDITION

PROPERTY\_DAMAGE\_ONLY

OVERTURNED

INJURY\_OR\_FATAL

* **CorrelationAttribute**

On Allegheny\_county\_crash\_data\_nominal2\_training.arff, in Weka used “Select Attributes” tab and set:

* Attribute Evaluator: CorrelationAttributeEval
* Search Method: Ranker -T 0.1 -N -1 (threshold > 0.1)

File: CorrelAttribEval10Train.arff (training dataset)

File: CorrelAttribEval10Test.arff (test dataset)

=== Run information ===

Evaluator: weka.attributeSelection.CorrelationAttributeEval

Search: weka.attributeSelection.Ranker -T 0.1 -N -1

Relation: Allegheny\_County\_Crash\_Data\_Nominal-weka.filters.supervised.instance.Resample-B0.0-S1-Z33.0-no-replacement-V

Instances: 8037

Attributes: 69

CRASH\_MONTH

DAY\_OF\_WEEK

ILLUMINATION

WEATHER

ROAD\_CONDITION

COLLISION\_TYPE

INTERSECT\_TYPE

LOCAL\_ROAD

TURNPIKE

WET\_ROAD

ICY\_ROAD

REAR\_END

HO\_OPPDIR\_SDSWP

HIT\_FIXED\_OBJECT

SV\_RUN\_OFF\_RD

WORK\_ZONE

PROPERTY\_DAMAGE\_ONLY

FATAL\_OR\_MAJ\_INJ

INJURY

FATAL

INTERSECTION

UNSIGNALIZED\_INT

SCHOOL\_BUS

SCHOOL\_ZONE

HIT\_DEER

HIT\_TREE\_SHRUB

HIT\_EMBANKMENT

HIT\_POLE

HIT\_GDRAIL

HIT\_GDRAIL\_END

HIT\_BARRIER

HIT\_BRIDGE

OVERTURNED

MOTORCYCLE

BICYCLE

HVY\_TRUCK\_RELATED

VEHICLE\_FAILURE

TRAIN\_TROLLEY

PHANTOM\_VEHICLE

ALCOHOL\_RELATED

DRINKING\_DRIVER

UNDERAGE\_DRNK\_DRV

UNLICENSED

CELL\_PHONE

RUNNING\_RED\_LT

TAILGATING

CURVE\_DVR\_ERROR

SPEEDING

SPEEDING\_RELATED

FATIGUE\_ASLEEP

UNBELTED

PEDESTRIAN

DISTRACTED

CURVED\_ROAD

MC\_DRINKING\_DRIVER

INJURY\_OR\_FATAL

COMM\_VEHICLE

IMPAIRED\_DRIVER

DEER\_RELATED

ILLEGAL\_DRUG\_RELATED

ILLUMINATION\_DARK

MINOR\_INJURY

MODERATE\_INJURY

MAJOR\_INJURY

NHTSA\_AGG\_DRIVING

RUNNING\_STOP\_SIGN

TRAIN

TROLLEY

MAX\_SEVERITY\_LEVEL

Evaluation mode: evaluate on all training data

=== Attribute Selection on all input data ===

Search Method:

Attribute ranking.

Threshold for discarding attributes: 0.1

Attribute Evaluator (supervised, Class (nominal): 69 MAX\_SEVERITY\_LEVEL):

Correlation Ranking Filter

Ranked attributes:

0.971 17 PROPERTY\_DAMAGE\_ONLY

0.915 56 INJURY\_OR\_FATAL

0.909 19 INJURY

0.409 63 MODERATE\_INJURY

0.403 62 MINOR\_INJURY

0.197 52 PEDESTRIAN

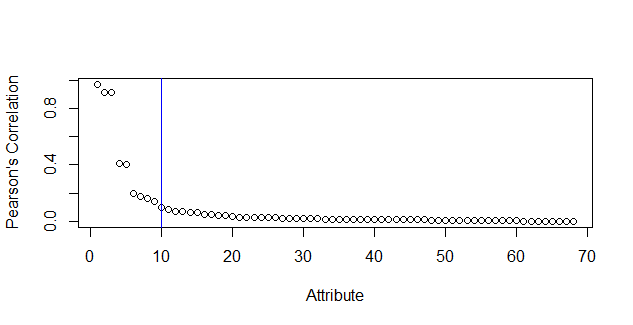
0.18 18 FATAL\_OR\_MAJ\_INJ

0.166 64 MAJOR\_INJURY

0.139 34 MOTORCYCLE

0.103 51 UNBELTED

The threshold for discarding attributes was selected based upon plotting sorted the Pearson Coefficients and looking to see where the inflection point was on the plot (see plot below).



* **InfoGainAttribute**

On Allegheny\_county\_crash\_data\_nominal2\_training.arff, in Weka used “Select Attributes” tab and set:

* Attribute Evaluator: InfoGainAttributeEval
* Search Method: Ranker -T 0.01 -N -1 (threshold > 0.01)

File: InfoGainAttribEvalTrain.arff (training dataset)

File: InfoGainAttribEvalTest.arff (test dataset)

=== Run information ===

Evaluator: weka.attributeSelection.InfoGainAttributeEval

Search: weka.attributeSelection.Ranker -T 0.01 -N -1

Relation: Allegheny\_County\_Crash\_Data\_Nominal-weka.filters.supervised.instance.Resample-B0.0-S1-Z33.0-no-replacement-V

Instances: 8037

Attributes: 69

CRASH\_MONTH

DAY\_OF\_WEEK

ILLUMINATION

WEATHER

ROAD\_CONDITION

COLLISION\_TYPE

INTERSECT\_TYPE

LOCAL\_ROAD

TURNPIKE

WET\_ROAD

ICY\_ROAD

REAR\_END

HO\_OPPDIR\_SDSWP

HIT\_FIXED\_OBJECT

SV\_RUN\_OFF\_RD

WORK\_ZONE

PROPERTY\_DAMAGE\_ONLY

FATAL\_OR\_MAJ\_INJ

INJURY

FATAL

INTERSECTION

UNSIGNALIZED\_INT

SCHOOL\_BUS

SCHOOL\_ZONE

HIT\_DEER

HIT\_TREE\_SHRUB

HIT\_EMBANKMENT

HIT\_POLE

HIT\_GDRAIL

HIT\_GDRAIL\_END

HIT\_BARRIER

HIT\_BRIDGE

OVERTURNED

MOTORCYCLE

BICYCLE

HVY\_TRUCK\_RELATED

VEHICLE\_FAILURE

TRAIN\_TROLLEY

PHANTOM\_VEHICLE

ALCOHOL\_RELATED

DRINKING\_DRIVER

UNDERAGE\_DRNK\_DRV

UNLICENSED

CELL\_PHONE

RUNNING\_RED\_LT

TAILGATING

CURVE\_DVR\_ERROR

SPEEDING

SPEEDING\_RELATED

FATIGUE\_ASLEEP

UNBELTED

PEDESTRIAN

DISTRACTED

CURVED\_ROAD

MC\_DRINKING\_DRIVER

INJURY\_OR\_FATAL

COMM\_VEHICLE

IMPAIRED\_DRIVER

DEER\_RELATED

ILLEGAL\_DRUG\_RELATED

ILLUMINATION\_DARK

MINOR\_INJURY

MODERATE\_INJURY

MAJOR\_INJURY

NHTSA\_AGG\_DRIVING

RUNNING\_STOP\_SIGN

TRAIN

TROLLEY

MAX\_SEVERITY\_LEVEL

Evaluation mode: evaluate on all training data

=== Attribute Selection on all input data ===

Search Method:

Attribute ranking.

Threshold for discarding attributes: 0.01

Attribute Evaluator (supervised, Class (nominal): 69 MAX\_SEVERITY\_LEVEL):

Information Gain Ranking Filter

Ranked attributes:

0.9021 17 PROPERTY\_DAMAGE\_ONLY

0.7754 56 INJURY\_OR\_FATAL

0.7646 19 INJURY

0.1575 63 MODERATE\_INJURY

0.1536 62 MINOR\_INJURY

0.0415 6 COLLISION\_TYPE

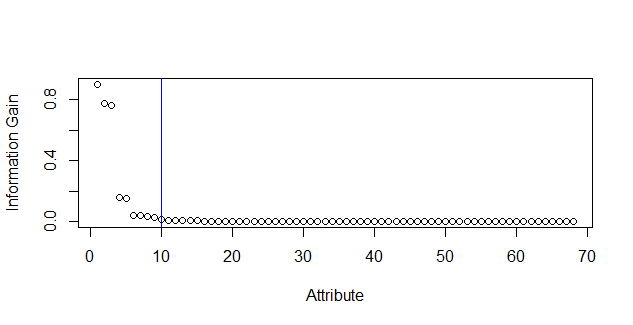
0.037 52 PEDESTRIAN

0.0314 18 FATAL\_OR\_MAJ\_INJ

0.0266 64 MAJOR\_INJURY

0.0167 34 MOTORCYCLE

Selected attributes: 17,56,19,63,62,6,52,18,64,34 : 10



* **GainRatioAttribute**

On Allegheny\_county\_crash\_data\_nominal2\_training.arff, in Weka used “Select Attributes” tab and set:

* Attribute Evaluator: GainRatioAttributeEval
* Search Method: Ranker -T 0.01 -N -1 (threshold > 0.01)

File: GainRatioAttribEvalTrain.arff (training dataset)

File: GainRatioAttribEvalTest.arff (test dataset)

=== Run information ===

Evaluator: weka.attributeSelection.GainRatioAttributeEval

Search: weka.attributeSelection.Ranker -T 0.01 -N -1

Relation: Allegheny\_County\_Crash\_Data\_Nominal-weka.filters.supervised.instance.Resample-B0.0-S1-Z33.0-no-replacement-V

Instances: 8037

Attributes: 69

CRASH\_MONTH

DAY\_OF\_WEEK

ILLUMINATION

WEATHER

ROAD\_CONDITION

COLLISION\_TYPE

INTERSECT\_TYPE

LOCAL\_ROAD

TURNPIKE

WET\_ROAD

ICY\_ROAD

REAR\_END

HO\_OPPDIR\_SDSWP

HIT\_FIXED\_OBJECT

SV\_RUN\_OFF\_RD

WORK\_ZONE

PROPERTY\_DAMAGE\_ONLY

FATAL\_OR\_MAJ\_INJ

INJURY

FATAL

INTERSECTION

UNSIGNALIZED\_INT

SCHOOL\_BUS

SCHOOL\_ZONE

HIT\_DEER

HIT\_TREE\_SHRUB

HIT\_EMBANKMENT

HIT\_POLE

HIT\_GDRAIL

HIT\_GDRAIL\_END

HIT\_BARRIER

HIT\_BRIDGE

OVERTURNED

MOTORCYCLE

BICYCLE

HVY\_TRUCK\_RELATED

VEHICLE\_FAILURE

TRAIN\_TROLLEY

PHANTOM\_VEHICLE

ALCOHOL\_RELATED

DRINKING\_DRIVER

UNDERAGE\_DRNK\_DRV

UNLICENSED

CELL\_PHONE

RUNNING\_RED\_LT

TAILGATING

CURVE\_DVR\_ERROR

SPEEDING

SPEEDING\_RELATED

FATIGUE\_ASLEEP

UNBELTED

PEDESTRIAN

DISTRACTED

CURVED\_ROAD

MC\_DRINKING\_DRIVER

INJURY\_OR\_FATAL

COMM\_VEHICLE

IMPAIRED\_DRIVER

DEER\_RELATED

ILLEGAL\_DRUG\_RELATED

ILLUMINATION\_DARK

MINOR\_INJURY

MODERATE\_INJURY

MAJOR\_INJURY

NHTSA\_AGG\_DRIVING

RUNNING\_STOP\_SIGN

TRAIN

TROLLEY

MAX\_SEVERITY\_LEVEL

Evaluation mode: evaluate on all training data

=== Attribute Selection on all input data ===

Search Method:

Attribute ranking.

Threshold for discarding attributes: 0.01

Attribute Evaluator (supervised, Class (nominal): 69 MAX\_SEVERITY\_LEVEL):

Gain Ratio feature evaluator

Ranked attributes:

0.9022 17 PROPERTY\_DAMAGE\_ONLY

0.7852 56 INJURY\_OR\_FATAL

0.7751 19 INJURY

0.2786 63 MODERATE\_INJURY

0.2756 62 MINOR\_INJURY

0.169 52 PEDESTRIAN

0.1663 18 FATAL\_OR\_MAJ\_INJ

0.1599 64 MAJOR\_INJURY

0.1227 35 BICYCLE

0.1179 20 FATAL

0.1115 34 MOTORCYCLE

0.0691 55 MC\_DRINKING\_DRIVER

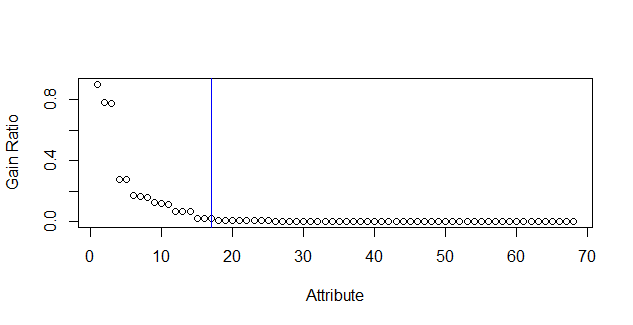
0.0651 38 TRAIN\_TROLLEY

0.0651 67 TRAIN

0.0197 33 OVERTURNED

0.0173 51 UNBELTED

0.0171 6 COLLISION\_TYPE

Selected attributes: 17,56,19,63,62,52,18,64,35,20,34,55,38,67,33,51,6 : 17

* **ClassifierAttribute**

On Allegheny\_county\_crash\_data\_nominal2\_training.arff, in Weka used “Select Attributes” tab and set:

* Attribute Evaluator: ClassifierAttributeEval J48 -C 0.25 -M 2 (classifier: J48 decision tree)
* Search Method: Ranker -T 0.01 -N -1 (threshold > 0.01)

File: ClassifierAttribEvalTrain.arff (training dataset)

File: ClassifierAttribEvalTest.arff (test dataset)

=== Run information ===

Evaluator: weka.attributeSelection.ClassifierAttributeEval -execution-slots 1 -B weka.classifiers.trees.J48 -F 5 -T 0.01 -R 1 -E DEFAULT -- -C 0.25 -M 2

Search: weka.attributeSelection.Ranker -T 0.01 -N -1

Relation: Allegheny\_County\_Crash\_Data\_Nominal-weka.filters.supervised.instance.Resample-B0.0-S1-Z33.0-no-replacement-V

Instances: 8037

Attributes: 69

CRASH\_MONTH

DAY\_OF\_WEEK

ILLUMINATION

WEATHER

ROAD\_CONDITION

COLLISION\_TYPE

INTERSECT\_TYPE

LOCAL\_ROAD

TURNPIKE

WET\_ROAD

ICY\_ROAD

REAR\_END

HO\_OPPDIR\_SDSWP

HIT\_FIXED\_OBJECT

SV\_RUN\_OFF\_RD

WORK\_ZONE

PROPERTY\_DAMAGE\_ONLY

FATAL\_OR\_MAJ\_INJ

INJURY

FATAL

INTERSECTION

UNSIGNALIZED\_INT

SCHOOL\_BUS

SCHOOL\_ZONE

HIT\_DEER

HIT\_TREE\_SHRUB

HIT\_EMBANKMENT

HIT\_POLE

HIT\_GDRAIL

HIT\_GDRAIL\_END

HIT\_BARRIER

HIT\_BRIDGE

OVERTURNED

MOTORCYCLE

BICYCLE

HVY\_TRUCK\_RELATED

VEHICLE\_FAILURE

TRAIN\_TROLLEY

PHANTOM\_VEHICLE

ALCOHOL\_RELATED

DRINKING\_DRIVER

UNDERAGE\_DRNK\_DRV

UNLICENSED

CELL\_PHONE

RUNNING\_RED\_LT

TAILGATING

CURVE\_DVR\_ERROR

SPEEDING

SPEEDING\_RELATED

FATIGUE\_ASLEEP

UNBELTED

PEDESTRIAN

DISTRACTED

CURVED\_ROAD

MC\_DRINKING\_DRIVER

INJURY\_OR\_FATAL

COMM\_VEHICLE

IMPAIRED\_DRIVER

DEER\_RELATED

ILLEGAL\_DRUG\_RELATED

ILLUMINATION\_DARK

MINOR\_INJURY

MODERATE\_INJURY

MAJOR\_INJURY

NHTSA\_AGG\_DRIVING

RUNNING\_STOP\_SIGN

TRAIN

TROLLEY

MAX\_SEVERITY\_LEVEL

Evaluation mode: evaluate on all training data

=== Attribute Selection on all input data ===

Search Method:

Attribute ranking.

Threshold for discarding attributes: 0.01

Attribute Evaluator (supervised, Class (nominal): 69 MAX\_SEVERITY\_LEVEL):

Classifier feature evaluator

Using Wrapper Subset Evaluator

Learning scheme: weka.classifiers.trees.J48

Scheme options: -C 0.25 -M 2

Subset evaluation: classification accuracy

Number of folds for accuracy estimation: 5

Ranked attributes:

0.4635 17 PROPERTY\_DAMAGE\_ONLY

0.4344 56 INJURY\_OR\_FATAL

0.4314 19 INJURY

0.1329 63 MODERATE\_INJURY

0.1299 62 MINOR\_INJURY

0.0383 6 COLLISION\_TYPE

0.0347 52 PEDESTRIAN

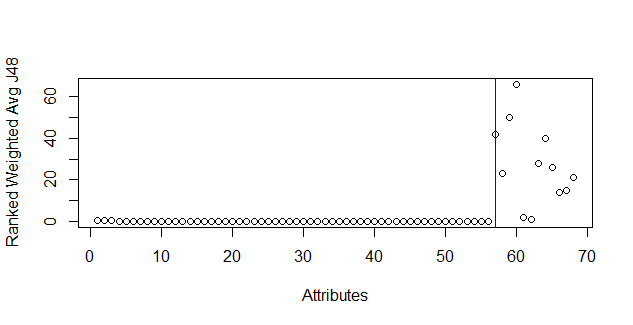
0.0289 18 FATAL\_OR\_MAJ\_INJ

0.0256 51 UNBELTED

0.0245 64 MAJOR\_INJURY

0.0193 34 MOTORCYCLE

Selected attributes: 17,56,19,63,62,6,52,18,51,64,34 : 11



# **Appendix B**

**Model’s Summary Data**

All performance measures including confusion table for 20 models can be seen in the tables below.

* **CfSubset IBk k=4 (Model 1)**



* **CfSubset Naïve Bayes (Model 6)**



* **CfSubset Random Forest k =4 (Model 11)**



* **CfSubset Ada Boost M1 + Random Forest k = 4 (Model 16)**



* **CorrAttr IBk k = 4 (Model 2)**



* **CorrAttr Naïve Bayes (Model 7)**
* 
* **CorrAttr Random Forest k = 4 (Model 12)**



* **CorrAttr Ada Boost M1 + Random Forest (Model 17)**



* **InfoGainAttr IBk k = 4 (Model 3)**



* **InfoGainAttr Naïve Bayes (Model 8)**



* **InfoGainAttr Random Forest k = 4 (Model 13)**



* **InfoGainAttr Ada Boost M1 + Random Forest k = 4 (Model 18)**



* **GainRatioAttr IBk k = 4 (Model 4)**



* **GainRatioAttr Naïve Bayes (Model 9)**



* **GainRatioAttr Random Forest k = 4 (Model 14)**



* **GainRatioAttr Ada Boost M1 + Random Forest k = 4 (Model 19)**



* **ClassifierAttr J48 + IBk k =4 (Model 5)**



* **ClassifierAttr J48 + Naïve Bayes (Model 10)**



* **ClassifierAttr J48 + Random Forest k = 4 (Model 15)**



* **ClassifierAttr J48 + Ada Boost M1 + Random Forest (Model 20)**

