

# Lab4 - Naive Bayes + Balancing

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\* Required

## Dataset NYC collisions

### Set 1 - Balancing Techniques \*

15 points

|              | 0 - None              | 1 - Low               | 2 - Average           | 3 - High              | Non<br>Applicable     |
|--------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Subsampling  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Oversampling | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| SMOTE        | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

### Set 1 - Balancing Impact \*

10 points

|             | 0 - None              | 1 - Low               | 2 - Average           | 3 - High              | Non<br>Applicable     |
|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Naive Bayes | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| KNN         | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |



## Set 1 - Naive Bayes study \*

25 points

|                          | 0 - None              | 1 - Low               | 2 - Average           | 3 - High              | Non<br>Applicable     |
|--------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Gaussian                 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Bernoulli                | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Multinomial              | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Best model<br>evaluation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Confusion<br>Matrix      | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

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\* Required

## Dataset AirQuality

### Set 2 - Balancing Techniques \*

15 points

|              | 0 - None              | 1 - Low               | 2 - Average           | 3 - High              | Non<br>Applicable     |
|--------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Subsampling  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Oversampling | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| SMOTE        | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

### Set 2 - Balancing Impact \*

10 points

|             | 0 - None              | 1 - Low               | 2 - Average           | 3 - High              | Non<br>Applicable     |
|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Naive Bayes | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| KNN         | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |



## Set 2 - Naive Bayes study \*

25 points

|                          | 0 - None              | 1 - Low               | 2 - Average           | 3 - High              | Non<br>Applicable     |
|--------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Gaussian                 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Bernoulli                | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Multinomial              | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Best model<br>evaluation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Confusion<br>Matrix      | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

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