**Confusion Matrix Equation:**

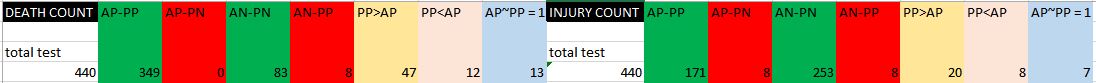
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Total Population | Predicted Condition | |  |  |
|  | Predicted Positive | Predicted Negative |
| True  Condition | Actual Positive | True Positive | False Negative | True Positive Rate | False Negative Rate |
| Actual Negative | False Positive | True Negative | False Positive Rate | True Negative Rate |
|  | Accuracy | Positive Predictive Value | False Omission Rate | Positive Likelihood Ratio | Diagnostic Odds Ratio |
|  | False Discovery Rate | Negative Predictive Value | Negative Likelihood ratio |

**Confusion Matrix for Casualty Count:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Total Population  440 | Predicted Condition | | = 0.7932 |  |
|  | Predicted Positive | Predicted Negative |
| True  Condition | Actual Positive | True Positive  349 | False Negative  0 | True Positive Rate    = 1 | False Negative Rate  = 0 |
| Actual Negative | False Positive  8 | True Negative  83 | False Positive Rate    = 0.0879 | True Negative Rate  = 0.9121 |
|  | Accuracy  = 0.9614  = 96.14 % | Positive Predictive Value  = 0.9776 | False Omission Rate  = 0 | Positive Likelihood Ratio    = 11.3766 | Diagnostic Odds Ratio  =11.3766:0 |
|  | False Discovery Rate  = 0.0224 | Negative Predictive Value  = 1 | Negative Likelihood ratio  = 0 |

**Confusion Matrix for Injury Count:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Total Population  440 | Predicted Condition | | = 0.4068 |  |
|  | Predicted Positive | Predicted Negative |
| True  Condition | Actual Positive | True Positive  171 | False Negative  8 | True Positive Rate    = 0.9553 | False Negative Rate  = 0.0447 |
| Actual Negative | False Positive  8 | True Negative  253 | False Positive Rate    = 0.0307 | True Negative Rate  = 0.9693 |
|  | Accuracy  = 0.9636  = 96.36 % | Positive Predictive Value  = 0.9553 | False Omission Rate  = 0.0307 | Positive Likelihood Ratio    = 31.1173 | Diagnostic Odds Ratio  = 674.9957 |
|  | False Discovery Rate  = 0.0447 | Negative Predictive Value  = 0.9693 | Negative Likelihood ratio  = 0.0461 |



|  |  |
| --- | --- |
|  |  |

**Confusion Matrix for Duplicate News Finding:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Total Population  225 | Predicted Condition | | =0.5956 |  |
|  |
|  | Predicted Positive | Predicted Negative |
| True  Condition | Actual Positive | True Positive  134 | False Negative  0 | True Positive Rate  =1 | False Negative Rate  =0 |
| Actual Negative | False Positive  8 | True Negative  83 | False Positive Rate  =0.0879 | True Negative Rate  =0.9121 |
|  | Accuracy  = 0.9644  =96.44 % | Positive Predictive Value | False Omission Rate  =0 | Positive Likelihood Ratio  =11.3766 | Diagnostic Odds Ratio  = 11.3766 : 0 |
|  | False Discovery Rate  = 0.0563 | Negative Predictive Value  =1 | Negative Likelihood ratio  =0 |