Metrics

|  |  |
| --- | --- |
| accuracy | 0.675191 |
| precision | 0.693819 |
| recall | 0.675936 |
| f-score | 0.675427 |

dtype: float64

Across 10-folds

Confusion matrix without normalization

[[333. 26. 26. 9. 16.]

[ 12. 285. 33. 74. 31.]

[ 5. 40. 277. 40. 40.]

[ 4. 61. 35. 243. 77.]

[ 13. 50. 38. 42. 259.]]

Chart

Description automatically generated

**#GenderGroup – Male**

Confusion matrix without normalization

[[175 11 1 0 3]

[ 4 173 14 3 17]

[ 0 11 154 4 7]

[ 0 20 5 158 23]

[ 0 13 1 6 197]]

Fold results for males: (0.857, 0.8675946038998082, 0.8581564474987428, 0.860298295517733)

Chart

Description automatically generated

**#GenderGroup – Female**

Confusion matrix without normalization

[[188 7 0 0 0]

[ 1 193 0 1 12]

[ 0 9 185 3 13]

[ 0 16 0 183 3]

[ 0 8 0 2 176]]

Fold results for females: (0.925, 0.9308068482519378, 0.9259198496025182, 0.9263547476674319)

Chart

Description automatically generated

**#AgeGroup – GenZ**

Confusion matrix without normalization

[[116 26 5 0 3]

[ 0 143 0 0 0]

[ 0 96 60 0 3]

[ 0 128 0 18 0]

[ 0 22 14 13 353]]

Fold results for GenZ Group: (0.69, 0.7336008107014809, 0.6304177895737133, 0.6040086881206033)

Chart

Description automatically generated

**#AgeGroup – Millennial**

Confusion matrix without normalization

[[ 92 99 5 0 3]

[ 3 172 0 0 7]

[ 0 98 87 2 0]

[ 0 177 0 32 0]

[ 0 4 9 0 210]]

Fold results for Millennial Group: (0.593, 0.8076512778212805, 0.5934842456552898, 0.5822836223398076)

Chart

Description automatically generated

**#AgeGroup – Boomer**

Confusion matrix without normalization

[[ 86 101 2 0 1]

[ 0 153 18 0 5]

[ 0 99 324 8 18]

[ 0 156 0 4 0]

[ 0 0 0 0 25]]

Fold results for Boomer Group: (0.592, 0.6171974542089875, 0.6137106648479875, 0.521848220179722)

Chart, scatter chart, box and whisker chart

Description automatically generated

|  |  |
| --- | --- |
| **Category** | **Count** |
| Cloth | 435 |
| N95 | 402 |
| N95\_Valve | 402 |
| Surgical | 410 |
| No\_Mask | 420 |
| Total | 2069 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Gender Group** | **Male** | **Female** | **Total** |
| Cloth | 157 | 165 | 322 |
| N95 | 151 | 172 | 323 |
| N95\_Valve | 162 | 157 | 319 |
| Surgical | 151 | 164 | 315 |
| No\_Mask | 157 | 161 | 318 |
| Total | 778 | 819 | 1597 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Age Group** | **GenZ** | **Millennial** | **Boomer** | **Total** |
| Cloth | 92 | 140 | 118 | 350 |
| N95 | 97 | 133 | 118 | 348 |
| N95\_Valve | 90 | 147 | 117 | 354 |
| Surgical | 82 | 142 | 118 | 342 |
| No\_Mask | 89 | 138 | 111 | 338 |
| Total | 450 | 700 | 582 | 1732 |