**TASK 1:**

**Training**  **Validation** **Tests**

|  |  |  |
| --- | --- | --- |
| Accuracy: 0.5754903725031492  Precision: 0.5685137027405481  Recall: 0.9336399474375822  F1: 0.7067014795474326  Confusion Matrix:  [[ 356 2157] [ 202 2842]]  Error: 0.42450962749685084  Sensitivity: 0.1416633505769996  Specificity: 0.9336399474375822 | Accuracy: 0.5741007194244604  Precision: 0.5795819935691319  Recall: 0.9126582278481012  F1: 0.7089478859390365  Confusion Matrix: [[ 77 523][ 69 721]]  Error: 0.4258992805755396  Sensitivity: 0.12833333333333333  Specificity: 0.9126582278481012 | Accuracy: 0.5860679332181923  Precision: 0.580064308681672  Recall: 0.9318181818181818  F1: 0.7150217994451051  Confusion Matrix: [[116 653][ 66 902]]  Error: 0.4139320667818077  Sensitivity: 0.1508452535760728  Specificity: 0.9318181818181818 |