**Recommended Results Based On The   
Experiment Report For Learning-Based**

**Design Tradeoff Selection**

Experiment 8 – Sampling Distribution | P (50%) – NP (50%)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Precision | Recall | F1 | Support |
| 0 (NP) | 0.73 | 0.76 | 0.74 | 21 |
| 1 (P) | 0.44 | 0.40 | 0.42 | 10 |
| Accuracy |  | | 0.65 | 31 |
| Macro avg | 0.58 | 0.58 | 0.59 | 31 |
| Weighted avg | 0.65 | 0.64 | 0.65 | 31 |

Experiment 10 – Sampling Distribution | P (50%) – NP (50%)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Precision | Recall | F1 | Support |
| 0 (NP) | 0.84 | 0.89 | 0.87 | 95 |
| 1 (P) | 0.62 | 0.50 | 0.55 | 32 |
| Accuracy |  | | 0.80 | 127 |
| Macro avg | 0.73 | 0.70 | 0.71 | 127 |
| Weighted avg | 0.78 | 0.80 | 0.79 | 127 |

Experiment 12 – Sampling Distribution | P (60%) – NP (40%)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Precision | Recall | F1 | Support |
| 0 (NP) | 0.87 | 0.90 | 0.88 | 89 |
| 1 (P) | 0.53 | 0.45 | 0.49 | 22 |
| Accuracy |  | | 0.81 | 111 |
| Macro avg | 0.70 | 0.68 | 0.69 | 111 |
| Weighted avg | 0.80 | 0.81 | 0.81 | 111 |

Experiment 13 – Sampling Distribution | P (60%) – NP (40%)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Precision | Recall | F1 | Support |
| 0 (NP) | 0.81 | 0.22 | 0.35 | 95 |
| 1 (P) | 0.27 | 0.84 | 0.41 | 32 |
| Accuracy |  | | 0.38 | 127 |
| Macro avg | 0.54 | 0.53 | 0.38 | 127 |
| Weighted avg | 0.67 | 0.38 | 0.36 | 127 |

Experiment 14 – Sampling Distribution | P (70%) – NP (30%)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Precision | Recall | F1 | Support |
| 0 (NP) | 0.83 | 0.71 | 0.77 | 21 |
| 1 (P) | 0.54 | 0.70 | 0.61 | 10 |
| Accuracy |  | | 0.71 | 31 |
| Macro avg | 0.69 | 0.71 | 0.69 | 31 |
| Weighted avg | 0.74 | 0.71 | 0.72 | 31 |

Experiment 22 – Sampling Distribution | P (60%) – NP (40%)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Precision | Recall | F1 | Support |
| 0 (NP) | 0.99 | 0.33 | 0.50 | 2688 |
| 1 (P) | 0.03 | 0.91 | 0.05 | 51 |
| Accuracy |  | | 0.35 | 2739 |
| Macro avg | 0.51 | 0.62 | 0.28 | 2739 |
| Weighted avg | 0.97 | 0.35 | 0.49 | 2739 |