**Model Optimization and Tuning Phase Template**

|  |  |
| --- | --- |
| Date | 15 October 2024 |
| Team ID | LTVIP2024TMID24828 |
| Project Title | Fake News Analysis in Social Media |
| Maximum Marks | 10 Marks |

**Model Optimization and Tuning Phase**

The Model Optimization and Tuning Phase involves refining machine learning models for peak performance. It includes optimized model code, fine-tuning hyperparameters, comparing performance metrics, and justifying the final model selection for enhanced predictive accuracy and efficiency.

### Hyperparameter Tuning Documentation (6 Marks):

|  |  |  |
| --- | --- | --- |
| **Model** | **Tuned Hyperparameters** | **Optimal Values** |
| --- | --- | --- |

### Performance Metrics Comparison Report (2 Marks):

|  |  |  |
| --- | --- | --- |
| **Model** | **Baseline Metric** | **Optimized Metric** |
| ---- | --- | --- |

### Final Model Selection Justification (2 Marks):

|  |  |
| --- | --- |
| **Final Model** | **Reasoning** |
| Passive-Aggressive | Passive-aggressive behavior is a form of indirect resistance, where a person expresses negative feelings or resentment in a veiled or non-confrontational way. Instead of openly addressing issues, a passive-aggressive person may avoid direct communication, procrastinate, sulk, or give backhanded compliments. |