**Edututor AI; Persanalized Learning with Generating AI**

**And LMS Integration**

**Model Performance Test**

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| Date | 1 July 2025 |
| Team ID | LTVIP2025TNID60823 |
| Project Name | Edututor AI;Personalized Learning with GeneratingAI And LMS Integration |
| Maximum Marks | 10 Marks |

### **Model Performance Testing Template**

| **S.No.** | **Parameter** | **Values** | **Screenshot** |
| --- | --- | --- | --- |
| 1 | **Metrics** | **Regression Model:**  - MAE: e.g., 2.45  - MSE: e.g., 10.85  - RMSE: e.g., 3.29  - R² Score: e.g., 0.87   **Classification Model:**  - Confusion Matrix: [[50, 2], [3, 45]]  - Accuracy Score: 0.95  - Classification Report: <pre> precision recall f1-score support  0 0.94 0.96 0.95 52 1 0.96 0.94 0.95 48  accuracy 0.95 100 macro avg 0.95 0.95 0.95 100 weighted avg 0.95 0.95 0.95 100</pre> | (Attach screenshots of metric outputs here) |
| 2 | **Tune the Model** | - **Hyperparameter Tuning:**  Used GridSearchCV with parameters:  n\_estimators: [100, 200], max\_depth: [5, 10, None]   - **Validation Method:**  5-Fold Cross Validation | (Attach screenshots of tuning results/grid search summary here) |

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