

**Project Development Phase**  
**Model Performance Test**

Date	30 JUNE 2025
Team ID	LTVIP2025TMID38204
Project Name	<b>Edututor AI: PERSONALIZED LEARNING WITH GENERATIVE AI And LMS INTEGRATION</b>
Maximum Marks	

**Model Performance Testing:**



### 1. Model Summary

- **Description:** Edututor AI integrates a generative LLM (e.g., GPT-4) with LMS data (e.g., quiz submissions, video engagement, forum interactions) to automate personalized lesson delivery, content creation (quizzes, summaries), and tutor-style guidance within the LMS.
  - **Screenshot:** Provide a snapshot of the model flow in the LMS—training interface or API integration panel.
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### 2. Accuracy

**Values** (to be filled by the project team):

- **Training Accuracy:** e.g., 98%
  - **Validation Accuracy:** e.g., 98%
  - **Screenshot:** Log outputs (TensorBoard, model training report, etc.)
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### 3. Confidence Score (for detection tasks)

- **Use Case:** e.g., automatic tagging of LMS content objects (e.g., “Quiz”, “Video”, “Discussion”) generated or fetched by the model.
  - **Class Detected:** Provide examples of correct/incorrect object detection (e.g., Model misrecognized a “Video” as “Quiz”)
  - **Confidence Score:** e.g., 92%—reflects probability assigned to the correct detection.
  - **Screenshot:** Annotated output showing object labels and confidence values.
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#### 4. Hyperparameter Tuning & Validation

Parameter	To be filled
<b>Hyperparameter Tuning</b>	List of hyperparameters and ranges tried (e.g., learning rate: $1e-4$ – $1e-6$ ; batch size: 16–64)
<b>Validation Method</b>	e.g., 5-fold cross-validation, stratified sampling, or time-based split based on LMS usage