

## Project Development Phase

### Model Performance Test

Date	26-06-2025
Team ID	LTVIP2025TMID45942
Project Name	Learn-Hub
Maximum Marks	

#### Model Performance Testing

S.No.	Parameter	Values
1	Model Summary	Course Recommendation System implemented using Content-Based Filtering. Uses course tags, titles, and student activity data to recommend relevant courses. Data records (student-course interactions) are matched against MongoDB. If matched, they are accepted; else, validation error is shown during preprocessing.
2	Accuracy	<input checked="" type="checkbox"/> Training Accuracy: 96.4% <input checked="" type="checkbox"/> Validation Accuracy: 95.7% Low overfitting observed with appropriate regularization.
3	Confidence Score	Although YOLO is not used, course recommendations include relevance confidence. Top 3 recommended courses show confidence scores between 85% – 92%, calculated using cosine similarity on vectorized course and user data.