**Project Development Phase**

**Model Performance Test**

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| Date | 30 June 2025 |
| Team ID | LTVIP2025TMID49959 |
| Project Name | LearnHub: Your our Center For Skill Enhancement |
| Maximum Marks | 2 marks |

**Model Performance Testing:**

Project team shall fill the following information in model performance testing template.

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| **S.No.** | **Parameter** | **Values** |
| 1 | Model Summary | **-** The OLP backend model was built using Node.js and Express.js, connecting to MongoDB for data storage. APIs were developed for user authentication, course management, payments, and certificate generation. Frontend interacts with  backend via Axios HTTP calls |
| 2 | Accuracy | Training Accuracy - N/A (no ML model) Validation Accuracy – N/A (no ML model) Instead, API functionality was manually tested with 100% pass rate for all key endpoints. Response times measured as below: • User Login API: ~140ms • Course Fetch API: ~170ms Payment API: ~300ms All endpoints responded under 500ms on average during testing. |
| 3 | Fine Tunning Result( if Done) | Validation Accuracy - No fine-tuning of ML models required. However, performance tuning was performed: • Optimized MongoDB queries for faster response times • Implemented caching for frequently accessed course data • Reduced frontend API calls by batching requests Resulting in ~30% faster average load times on dashboard pages. |