

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

Date	28 February 2026
Team ID	LTVIP2026TMIDS46423
Project Name	Intelligent SQL Querying with LLMs Using Gemini Pro
Maximum Marks	

**Model Performance Testing:**

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

S.No.	Parameter	Values	Screenshot
1.	Model Summary	Large Language Model (GPT-based) integrated via OpenAI API. Model converts natural language queries into syntactically correct SQL statements. Includes prompt engineering and query validation logic.	
2.	Accuracy	<b>Training Accuracy</b> – Not Applicable (Pre-trained LLM used) <b>Validation Accuracy</b> – ~90% SQL generation accuracy based on structured query testing	
3.	Fine Tuning Result( if Done)	Fine-tuning not performed. Prompt engineering optimization applied. Validation Accuracy after prompt tuning – ~93%	