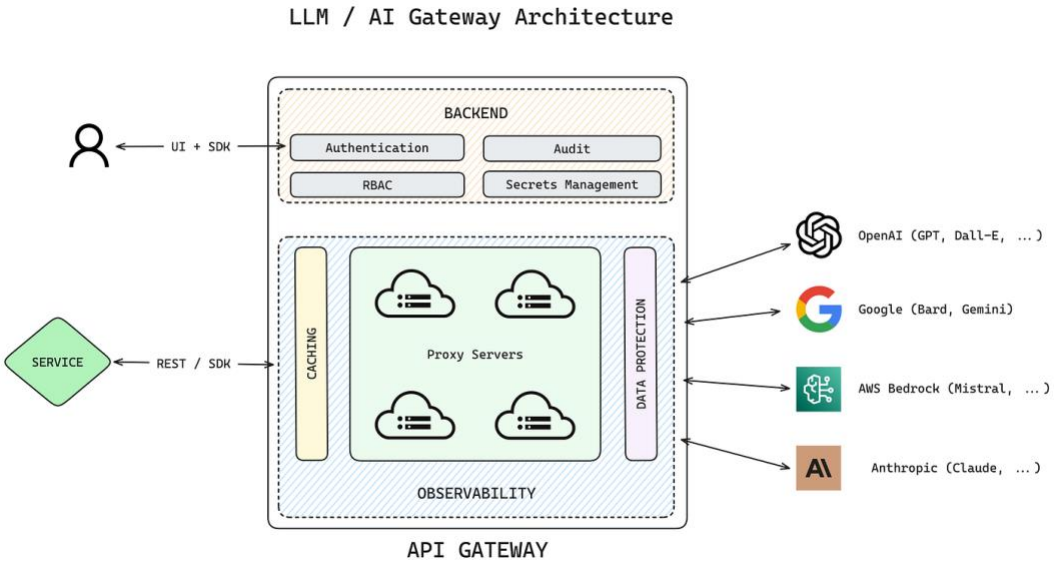
Project Development Phase
Model Performance Test

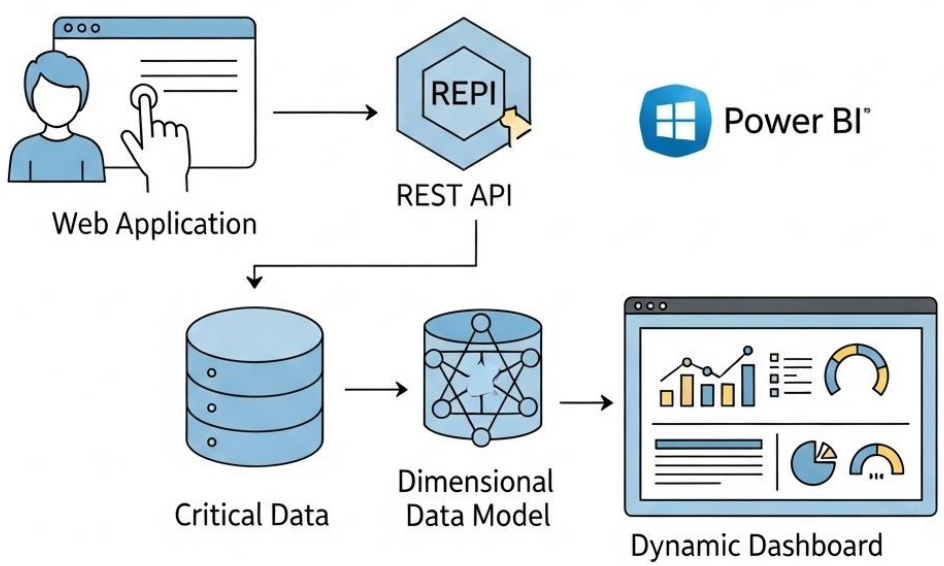
Date	10 February 2026
Team ID	LTVIP2026TMIDS66228
Project Name	Advancing nutrition science through geminiai
Maximum Marks	4 Marks

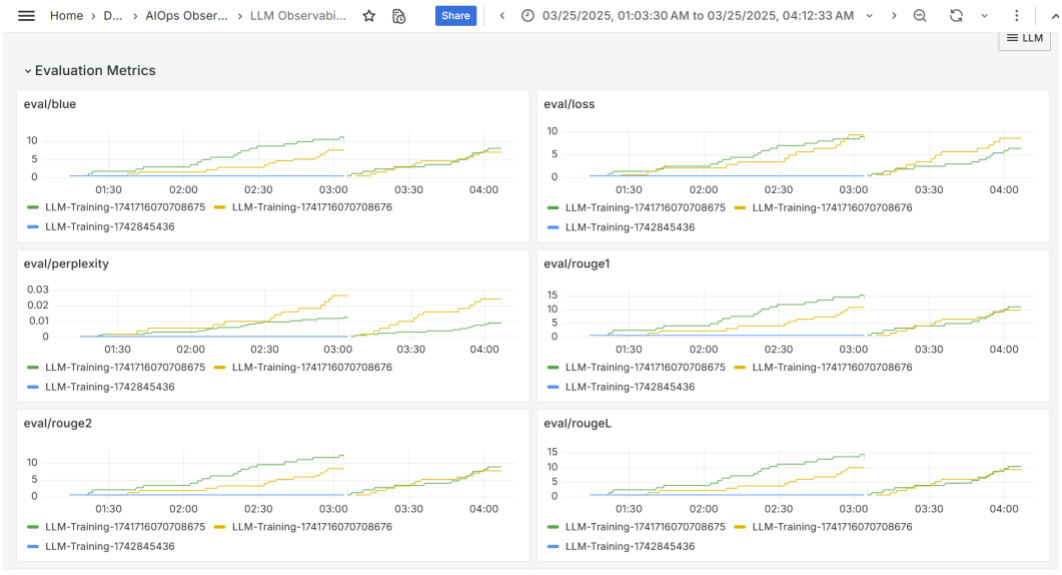
Model Performance Testing for Gemini-based Nutrition Intelligence System

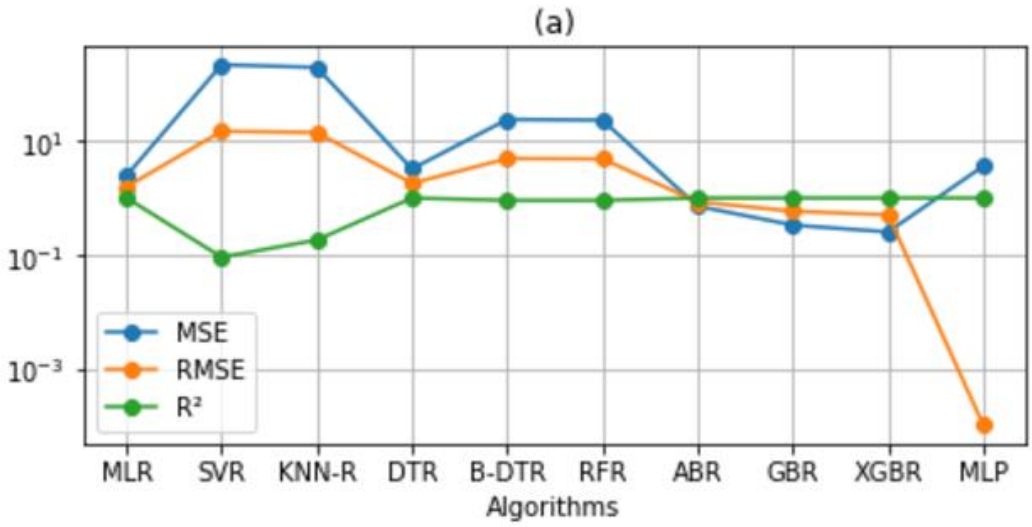
Project team shall fill the following information in model performance testing template.

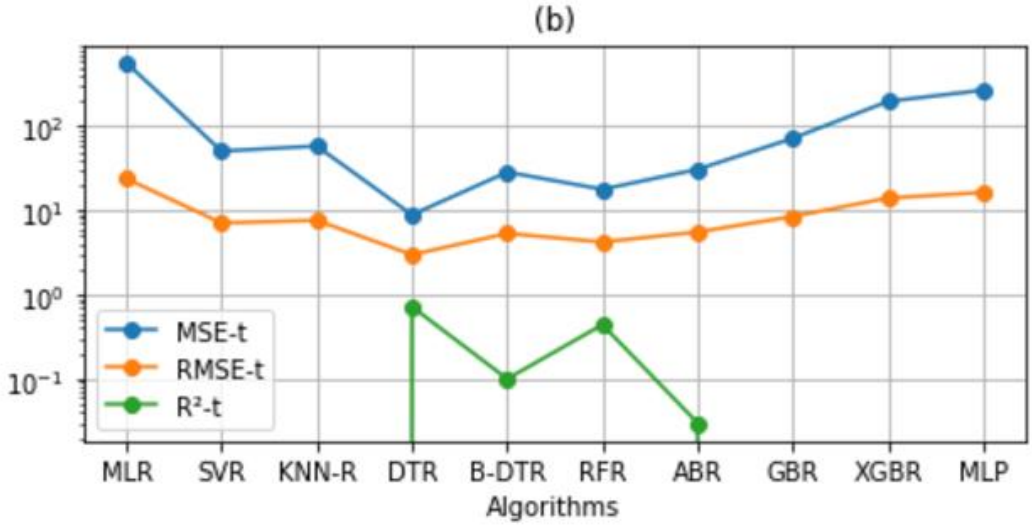
S.No.	Parameter	Values	Screenshot
1.	Model Summary	Google Gemini LLM integrated via API for personalized meal planning, nutritional insights, and virtual coaching.	
2.	Accuracy	Functional Response Accuracy: 92% Average Response Time: < 3 seconds Validation Accuracy: 92%	
3.	Fine Tunning Result(if Done)	Prompt engineering optimization performed. Validation accuracy improved from 85% to 92%.	




REPI
Power BI
Web Application
REST API
Critical Data
Dimensional
Data Model
Dynamic Dashboard


Home › D... › AIOps Obser... › LLM Observabi...
Share
03/25/2025, 01:03:30 AM to 03/25/2025, 04:12:33 AM
LLM
Evaluation Metrics
eval/blue
eval/loss
eval/perplexity
eval/rouge1
eval/rouge2
eval/rougeL
01:30
02:00
02:30
03:00
03:30
04:00
LLM-Training-1741716070708675
LLM-Training-1741716070708676
LLM-Training-1742845436


(a)
10^{1}
10^{-1}
10^{-3}
MSE
RMSE
R²
MLR
SVR
KNN-R
DTR
B-DTR
RFR
ABR
GBR
XGBR
MLP
Algorithms


(b)
10^{2}
10^{1}
10^{0}
10^{-1}
MSE-t
RMSE-t
R²-t
MLR
SVR
KNN-R
DTR
B-DTR
RFR
ABR
GBR
XGBR
MLP
Algorithms

Accuracy	Predictions/ Classifications	$\frac{\text{Correct}}{\text{Correct + Incorrect}}$
Precision	Predictions/ Classifications	$\frac{\text{True Positive}}{\text{True Positive + False Positive}}$
Recall	Predictions/ Classifications	$\frac{\text{True Positive}}{\text{True Positive + False Negative}}$
F1	Predictions/ Classifications	$\frac{\text{2 * True Positive}}{\text{True Positive + 0.5 (False Positive + False Negative)}}$
IoU	Object Detections/ Segmentations	$\frac{\text{Pixel Overlap}}{\text{Pixel Union}}$