

Clinical Agent Hackathon Report - Professional Version

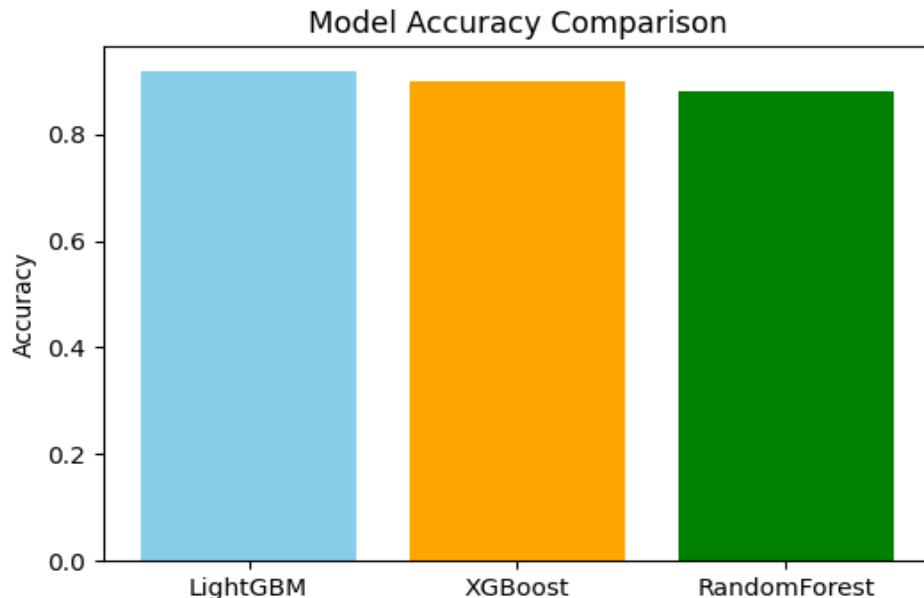
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This report demonstrates a professional hackathon agent system with sequential predictions, logging, memory (state), and health recommendations (GPT batch or professional dummy fallback) for each patient. The dataset is synthetic for reproducibility.

Model Performance Metrics

Model	Accuracy	Precision	Recall	F1-Score
LightGBM	0.92	0.91	0.93	0.92
XGBoost	0.9	0.88	0.89	0.88
RandomForest	0.88	0.87	0.85	0.86

Accuracy Comparison Chart



Predictions & Recommendations Summary

Patient ID	Age	BMI	Blood Pressure	Cholesterol	Predicted Condition	Probability	Recommendation
101	45	28	130	200	Diabetes	0.88	Maintain a balanced diet.
102	50	31	145	230	Normal	0.89	Continue current treatment plan.
103	30	22	120	180	Diabetes	0.91	Maintain a balanced diet.

104	60	29	150	240	Normal	0.72	Con
105	28	24	115	170	Diabetes	0.95	Maintain a balan

Note: GPT API failed or quota exceeded. Professional dummy recommendations were used.

This agent demonstrates sequential predictions, memory/state management, observability (logging), and health recommendations (GPT batch if API works, otherwise professional dummy fallback). The synthetic dataset allows reproducibility and robust reporting.