Cloud Provider Evaluation - Wellness Hub AI Platform

Evaluation Criteria for Wellness Hub

- AI/ML Services & Integration (NLP, Vision, Custom Models)

- Serverless and Container Orchestration (e.g., Lambda, Fargate, Cloud Run)

- Data Lakes, Warehousing & Analytics (e.g., Redshift, BigQuery)

- DevOps, CI/CD & Monitoring Tools

- Global Availability and Edge Delivery (CDN, Latency)

- Cost Efficiency & Scalability

- HIPAA/Healthcare Compliance Readiness

- Marketplace ecosystem (pre-trained APIs, health AI, 3rd-party services)

Cloud Provider Comparison - Summary

Criteria	AWS	GCP	Azure
AI/ML	Comprehensive (SageMaker, Bedrock)	Top-tier (Vertex AI)	Strong (Azure ML)
Serverless	Lambda, ECS Fargate	Cloud Run, Cloud Functions	Azure Functions, ACI
Data Tools	Redshift, Athena	BigQuery, Dataflow	Synapse, Data Lake
Monitoring	CloudWatch	Operations Suite	Azure Monitor
Marketplace	Largest	Strong	Moderate
Global CDN	CloudFront	Cloud CDN	Azure Front Door
Compliance	HIPAA, FedRAMP	HIPAA, ISO 27001	HIPAA, HITRUST
Pricing	Flexible, Pay-as-you-go	Slightly cheaper for ML	Integrated pricing

Recommendation (for Wellness Hub AI Platform)

Based on your emphasis on:

- AI-driven decision-making

- Dynamic rule engines and real-time health insights

- Diverse integration (chatbots, NLP, personalized planners)

We recommend Google Cloud Platform (GCP) due to:

- Seamless integration with Vertex AI and BigQuery

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- Built-in support for healthcare datasets & APIs

- Simpler developer tooling for AI/ML pipelines

Final Suggestion for Your Stack

- AI Layer: Vertex AI, Hugging Face (via Hub), OpenAI APIs

- Backend: FastAPI, Flask, Durable Rules, Scheduler (Cloud Run / App Engine)

- Data Layer: Firestore or BigQuery for analytics; GCS for raw files

- Visualization: Streamlit or Dash for rapid prototyping

- Deployment: GitHub Actions + GCP Cloud Build

- Compliance: GCP's healthcare blueprint with HIPAA readiness