

Cloud-Driven Health Care Optimization

Leveraging AWS Ecosystem Tools For Real-Time Heartbeat Monitoring And Prediction



BUSINESS VALUE

Using AWS tools, we establish workflow that provides real-time heartbeat monitoring with timely predictions and alerts, enabling proactive interventions and resource optimization.

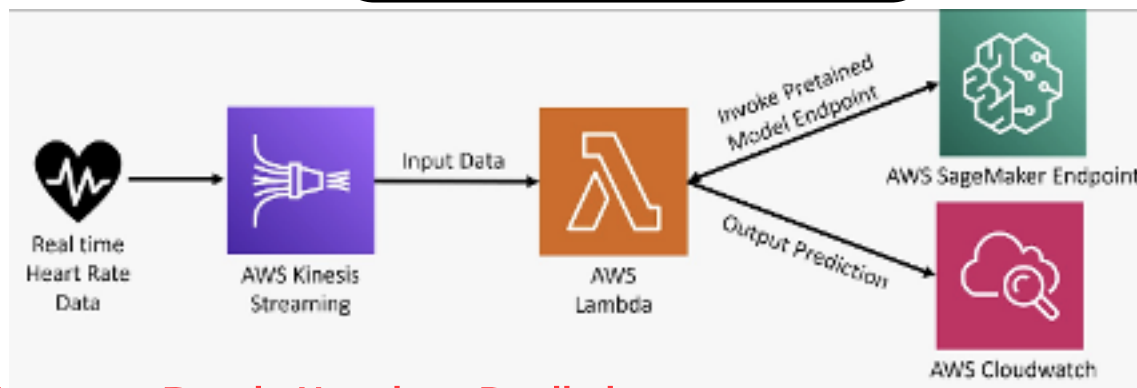
BENEFITS

Lower Healthcare Costs

Faster Response Times

Optimized Resource Allocation

SOLUTION ARCHITECTURE



95% Accuracy Rate in Heartbeat Predictions



Valuable tool in clinical decision support systems



Trained on 109,446 data-set for heartbeat classifications.



Assist healthcare professionals in diagnosing cardiac conditions

AWS KINESIS

- Real time streaming data
- Ingest high volumn data

AWS LAMBDA

- Connection between services
- highly modular and scalable serverless architectures.

AWS SAGEMAKER

- Covering Data preparation and machine learning model training to deployment

WHY CHOOSE US?

Scalability and Reliability

Effortlessly handles real-time monitoring demands, from thousands to millions, harnessing the power of AWS tools

Predictive Analytics for Early Intervention

Stay connected to patients' health ensuring accurate and prompt responses to vital changes

Data Security and Compliance

A secure cloud environment, regularly assessed and transparently reported for the highest security and compliance global standards

FUTURE ENHANCEMENTS



Real-Time Monitoring Dashboard:

Implement a real-time monitoring dashboard using AWS QuickSight to visualize heart rate predictions, enabling healthcare professionals to track patient data efficiently.



Alerting System

Integrate an alerting system with AWS Simple Notification Service (SNS) to notify healthcare providers in case of abnormal heart rate predictions, ensuring timely intervention.



GROUP -14



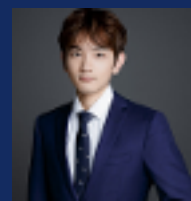
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