DEVELOPED AI PLATFORM
for Patient Diagnosis & Enhanced Care Delivery

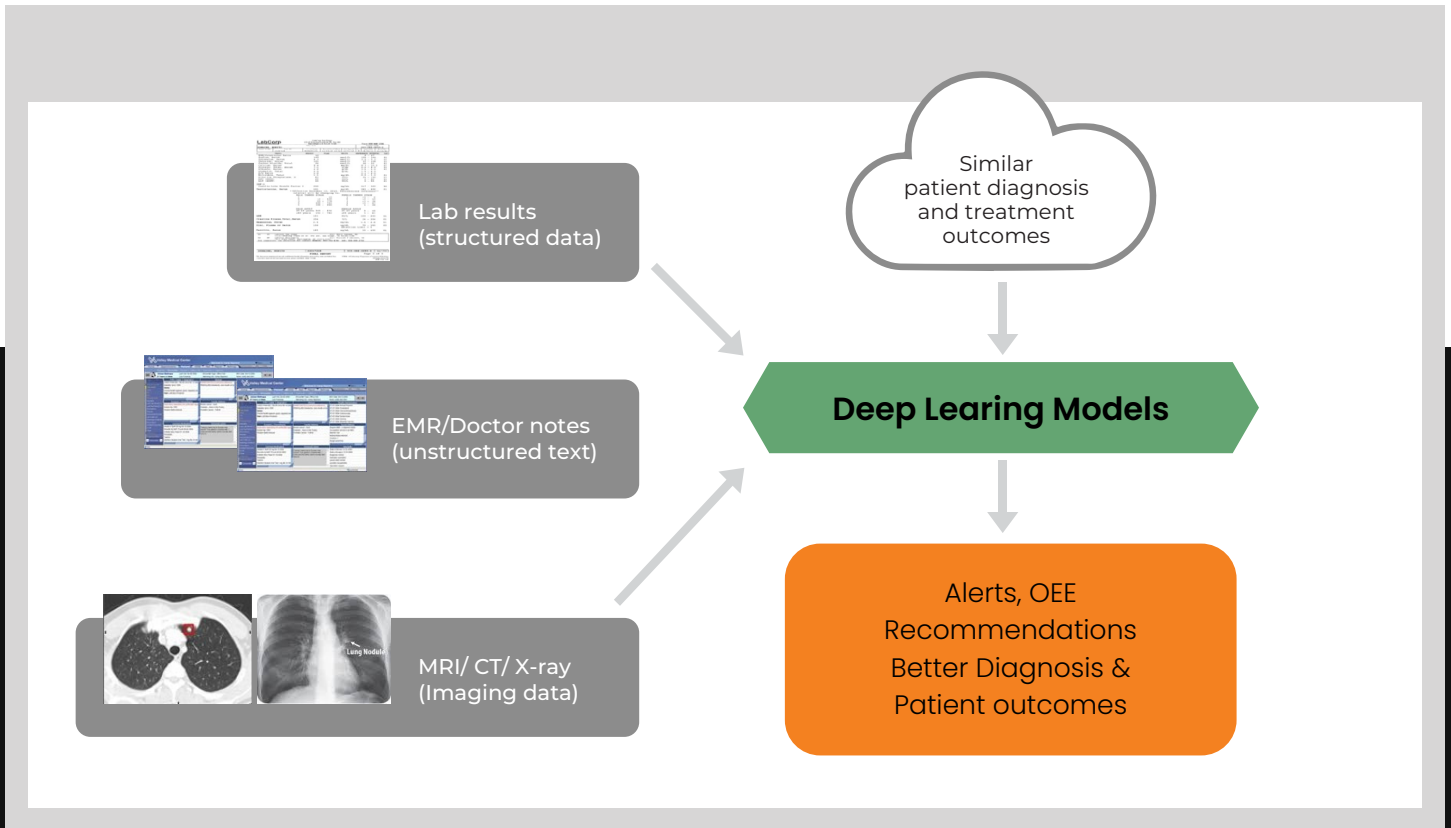**Services:** Data & Intelligence, Healthcare

OVERVIEW

Develop a Healthcare Radiology Assistant System using Machine Learning models to extract insights by processing EHR/EMR and medical history. Development of AI Platform for Patient Diagnosis using Machine Learning models operating on EHR/EMR and other data sources.
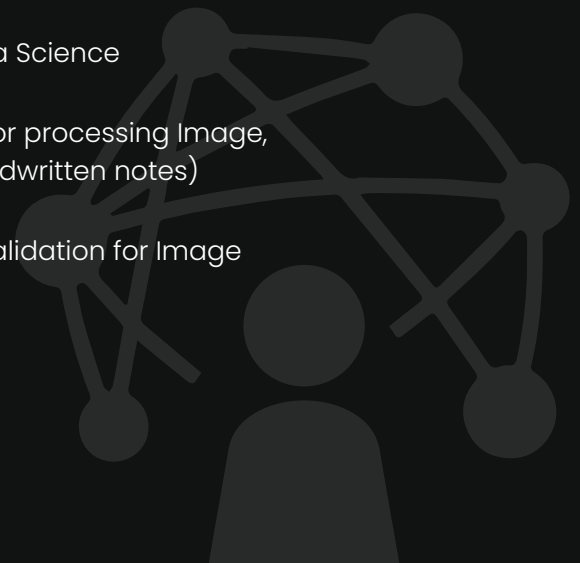
CHALLENGES

Develop a Healthcare Radiology Assistant System by using ML models for extracting insights by processing EHR/EMR and medical history

Lab results (structured data)

EMR/Doctor notes (unstructured text)

MRI/ CT/ X-ray (Imaging data)

Similar patient diagnosis and treatment outcomes

Deep Learing Models

Alerts, OEE Recommendations Better Diagnosis & Patient outcomes

SOLUTION

1 Deploy a team with experience in Data Engineering and Data Science

2 Data Pre-processing using Hadoop, Spark, Kafka streaming for processing Image, Text, structured (SQL/NoSQL) and unstructured data (e.g. handwritten notes)

3 Model exploration, Model development, Model training and validation for Image and text processing, anomaly detection, etc

4 Generate actionable insights including:
- Alerts/Alarms
- OEE recommendations
- Actionable insights
- Disease segmentation

5 Integration of solutions with Radiology Assistant and Physician Assist applications

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OUTCOMES

> Developed a Healthcare Radiology Assistant System by using ML models for extracting insights by processing EHR/EMR and medical history

> It reduced time for diagnosis and provided much need information about patient to healthcare staff on fingertip

> Generated alerts base on diagnosis and OEE Recommendations