

Project Design Phase-I

Solution Architecture

Date	19 September 2022
Team ID	PNT2022TMID29804
Project Name	Project – HEALTH CARE DATA ANALYTICS
Maximum Marks	4 Marks

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Every day, people working with various organizations around the world are generating a massive amount of data. The term “digital universe” quantitatively defines such massive amounts of data created, replicated, and consumed in a single year.
- The Healthcare Industry is comprised of companies that **offer clinical services, manufacture drugs and medical equipment, and provide healthcare-related support services like medical insurance**. It is also referred to as the medical industry..
- data analysis process follows certain phases such as business problem statement, understanding and acquiring the data, extract data from various sources, applying data quality for data cleaning, feature selection by doing exploratory data analysis, outliers identification and removal, transforming the data, creating .
- The use of big data in healthcare **allows for strategic planning thanks to better insights into people's motivations**. Care managers can analyze check-up results among people in different demographic groups and identify what factors discourage people from taking up treatment.

Example - Solution Architecture Diagram:

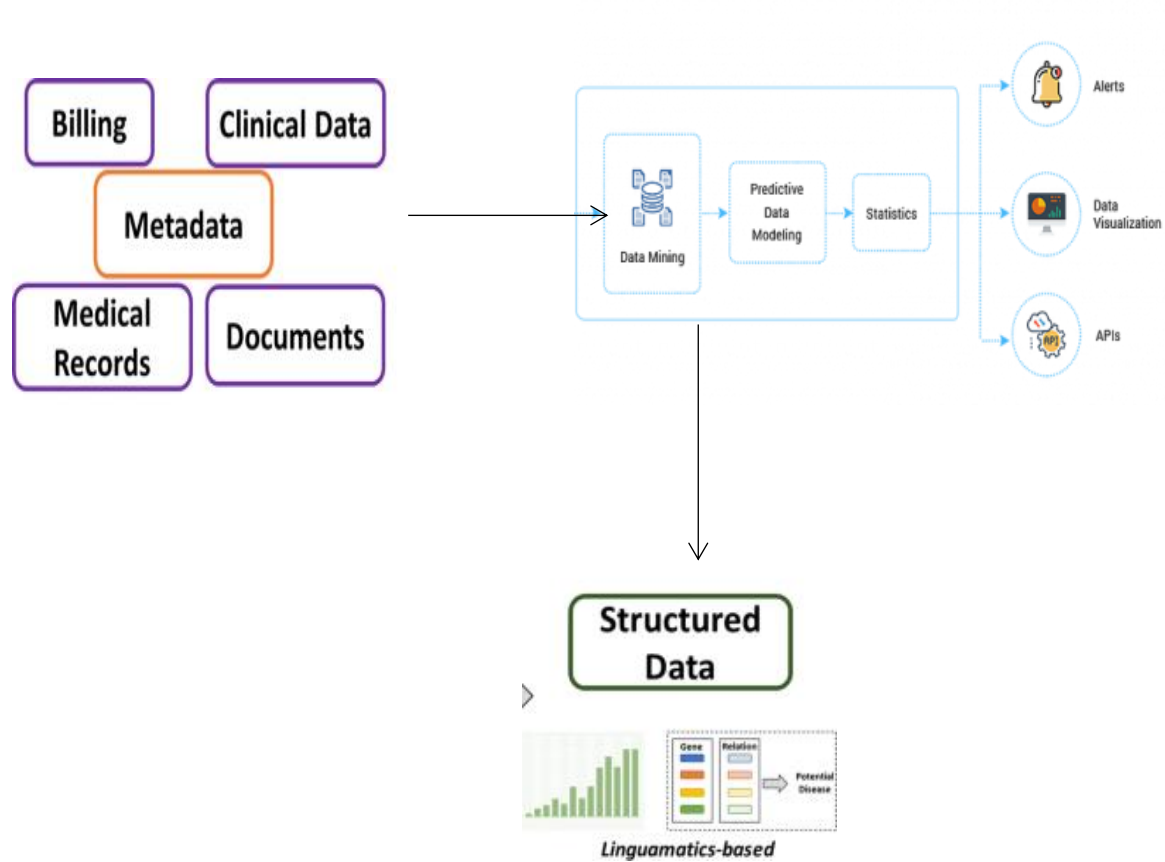


Figure: <https://www.google.com/search?q=solution+architecture+of+health+care+data+analytics&sxsrf=ALiCzsb-i>

Reference: HOW IS HEALTHCARE PAYER ANALYTICS BENEFICIAL FOR HEALTHCARE PROVIDERS TO MODERNIZE DIGITAL DATA IN THE HEALTHCARE SECTOR?

Daisy Morgan