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PROPOSED SOLUTION

ANALYTICS OF HEALTH CARE DATA

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PROBLEM STATEMENT:

The healthcare data analytics techniques are not efficient enough and suitable anymore these days in order to manage big data issue and improve healthcare data analytics due to the rapid growth and evolution of technology. Moreover, it's also aims to promise professionals of a better quality of medical results, as well as reduce time needed to analyze healthcare data by keeping systems up to-date and sorting medical data in a logical structure along with accessing and retrieving patient's historical data fast and smoothly.

IDEA/SOLUTION DESCRIPTION:

- ✓ Searching for initial and related studies
- ✓ Relevance appraisal and evaluation, and finally extracting data.
- ✓ Healthcare decision making
- ✓ Predictions of diseases & patient sickness preventions
- ✓ Clinical delivery
- ✓ Clinical operations, performance monitoring & reporting
- ✓ Improved diagnoses, treatment and results and finally
- ✓ Healthcare information exchange.

NOVELTY/UNIQUENESS:

Big data analytics in healthcare is evolving into a promising field for providing insight from very large data sets and improving outcomes while reducing costs. Its potential is great; however there remain challenges to overcome.

SOCIAL IMPPACT/CUSTOMER SATISFACTION:

The healthcare sector is widely considered as one of the most important industries in information technology. More and more, information technology has been considered as a practice that facilitates healthcare performance through using data and information efficiently within the healthcare sectors. Therefore, Wager et al said that in order to understand the relation between information technologies and healthcare, we first need to understand what are the technologies used in healthcare. Information technology functions have developed over the last few years not only as a technology services provider, but also as a strategic provider that develops and integrates industries' infrastructures to facilitate and ensure quality of service.

BUSSINESS MODEL (FINANCIAL BENEFIT):

The most significant and obvious result of using such technology within the healthcare sectors is its results on costs. Because of cost, information is one of the main aspects that have a big effect on the cost of healthcare predictive analytics. Medical care systems have focused on increasing healthcare analytics performance as well as minimizing the cost by simplify unstructured clinical record and reducing irregular information. Consequently, large quantities of information then will be managed and controlled smoothly and efficiently. Predictive analytics can assist to avoid and reduce inaccurate prediction costs plus time for the reason that it makes the data sourcing cost lower by specifying the desired and necessary data only, since the data is simplified, standardized and exists in historical clinical databases.

SCALABILITY OF SOLUTION:

Key Performance Indicators (KPI): is a strategy evaluates in how company is executing its strategic vision. KPI can improve quality of medical healthcare for patients who are susceptible to hospital conditions when KPI used to specify significant indicators to be monitored and corrected, as well as identifying weaknesses. Also, KPI can use electronic medical record data to identify human practice and interventions.