

HEALTH DATA

surgery 0
clinical test
medications
blood pressure
lab test 52%
vaccination 82%
BMI normal

10-may-14



DNA



patient #08001

ggk tech
Delivering Commitments

gender ♂
age 23
HR 95 bpm
120/60
ECHO D
CD PWR<500
Frq 2.0 MHz
1800 mm
AO 100%



Case Study | Healthcare Industry

Predictive Analytics in Healthcare

Challenge

Our client needed help with developing data driven platforms for improving clinical and quality outcomes. Client wanted to develop advanced data analytics platform for analysing patient profiles/risk scores

Client Background

Our client is a leading technology company which provides cloud based data driven platforms in order to create a meaningful impact across the healthcare landscape.

Background

The aim of the client was to identify the set of individuals prone to diseases who would benefit from proactive care or lifestyle changes. For example, those patients at risk of developing diabetes, who would benefit from preventive care.

Our Solution

Using the Regression and Random Forest Model, GGK helped the client in creating the solution which:

- Collects the patient profile data from various ETL Data pipelines and feeds into a RDBMS Engine
- Performs variable refactoring & Data Imputation (Null values Handling) on the available data.
- Handles over fitting and under fitting scenarios & Implementation of predictive model pipeline
- Refreshes and optimizes the model.

Benefits

- The result is improved clinical diagnosis data accuracy, quality outcomes and risk score accuracy insight
- Predictive modelling helped in analysing risk associated with each patient, prioritize interventions to improve patient health & claims integrity of Payers

Tools/Technology Stack:

- R
- Tableau
- Microsoft SQL Server

About GGK

GGK Technologies is a global IT services company. We provide IT Consulting, Application Development, Product Engineering, Business Intelligence and QA / Testing services to our clients for over 10 years and had presence across US, Europe and Australia. For more information contact – info@ggktech.com

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