Top 3 ideas of Analytics for Hospitals-Health Care Data

Detecting fraud risk

Healthcare fraud(HCF) is a multibillion-dollar drain on healthcare spending, consuming an estimated $68 billion of annual healthcare spending in the United States. HCF can be attributed to deceitful practitioners, organized criminal schemes, or honest providers who make unintended mistakes during billing processes. Analytics can detect and predict fraudby:

Analysing claim patterns across different insurance policies or insurers

Detecting upcoding (e.g. services that are unnecessary in light of the diagnosis)

Discovering duplicate and phantom billing:

- A phantom bill is a claim submitted by a physician to the government to reimburse them for services they did not provide
- Unveiling phantom billing is done by comparing patient claims with prior medical history

The goal of data analytics is to detect potential fraud by **spotting anomalies or deviations from "normal" behavior or patterns**. To do that, an expert establishes a baseline of non-fraudulent activity to compare to the suspicious dataset. It may also

be possible to identify data known to be associated with fraud.

Efficient Alternative to an Ambulance

According to a report by the BBC, there were 1,46,133 deaths in India due to road accidents. Around 30% of these deaths occurred because of a delayed ambulance. That's not all, according to the Government of India's reports, more than 50% of heart attack patients reach the hospital 400 minutes late.

There's a huge problem with ambulances in India. In this project, you can propose a solution to this issue. For example, you can propose an Uber-like solution that runs separately from Hospital-run ambulances. You can also add the feature of specifying the issue so the ambulance can prioritize the patients accordingly.

Pressure Monitoring System for Reducing Pressure Damage

This is an attractive project for those interested in medical technology. In this project, you'd have to create a pressure monitoring system for blood pressure patients which would alert the patient and if necessary, their physician.

Such a solution can help people in following the proper preventive measures, as the old adage goes "prevention is better than cure." It

would also allow patients and doctors to efficiently utilize resources and funds.