Patient Health Record Maintenance

The project focuses on maintaining patient health records in health sectors. The main purpose of the project is to create a system that can be useful and improve the health sector in maintaining the health record for the purpose of analysing the patient records. It is really crucial for the healthcare sector to keep accurate data in the hospital to make better patient care, get good accurate diagnosis and treatment plans for the patients. Usually the patient records are collected in various ways.

The main objective of this project is to have a machine learning model that can handle huge amounts of patient data that can ensure integrity and security of data. This model will provide good insights to healthcare professionals such as doctors and nurses.

In this project, we need 4 roles that are needed for this project:
1. Data Architect
2. Data Analyst
3. Data Engineer
4. Cybersecurity Analyst

Business model :
In this project, the main focus will be on the area of patient care and data record management. How do we store patient data through electronic devices such as Apple Watch, health applications, hospital visits etc. The project focuses more on machine learning models that can store data and predict insightful data for doctors and nurses and other purposes.

Advantage of this project:
1) Quick and easy access to patient records.
2) Accurate diagnose and give patients personalised treatment plans.
3) Improving the communication between different departments, doctors and nurses when they are checking the patient details.
4) Real time sharing of patient records
5) Cost reduction
6) Predictive modelling with machine learning algorithms.

The benefit of this project is for health professionals like doctors, nurses, hospitals, patients and insurance companies who can use the data for analysing and creating useful insights.

The challenge of this project is ensuring the patient rights to access their records, privacy, confidentiality and integrity of the patient data, handling of the big data and making sure the patient record system is system friendly for doctors and nurses when they are accessing the records.

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