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Data Flow Diagram

a template brought to you by your friends at MURAL

INSTRUCTIONS

1. Define the process you want to visualize, or use a pre-existing one
2. Develop the data flow by using the shapes and connectors in the key
3. Adjust and fine tune the data flow
4. Review the data flow
5. Next Steps

BRAINSTORMING AREA

NEXT STEPS

Edit this template
Right-click to unlock

FLOWKEY

This small rectangle is used for data that is required frequently or is produced in the process.

This shape is used for actions or instructions, the things that must be done.

It is where data comes from or goes to. It is external to the process.

Connects elements of the flow.

VISUALKEY

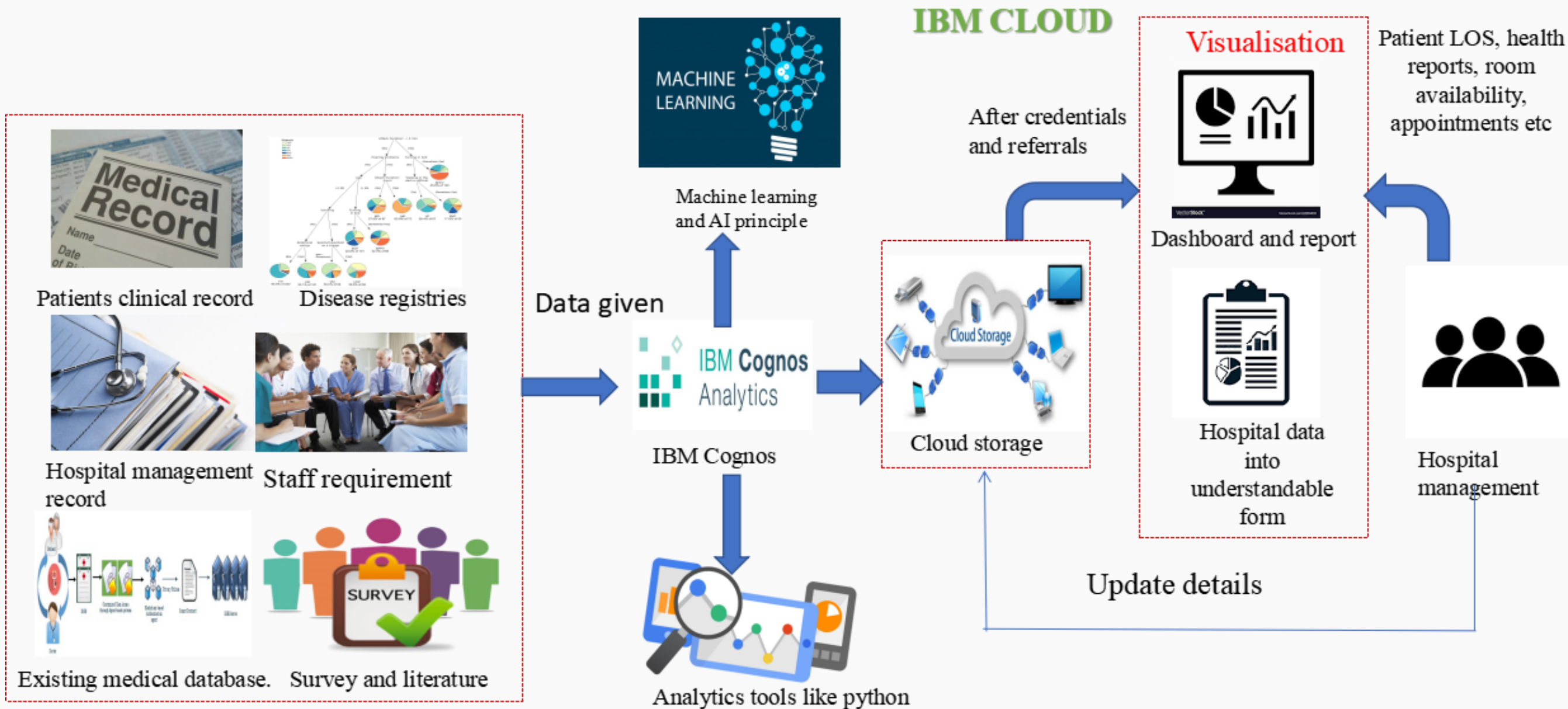You can also make your diagrams more engaging by using images and icons!

Data

Process

External entity

Add your own!

Share your feedback

DATA FLOW DIAGRAM OF HOSPITAL HEALTH CARE DATA

IBM CLOUD

MACHINE LEARNING

Visualisation

Patient LOS, health reports, room availability, appointments etc

Machine learning and AI principle

After credentials and referrals

Patients clinical record

Disease registries

Data given

IBM Cognos Analytics

IBM Cognos

Cloud storage

Cloud Storage

Dashboard and report

Hospital data into understandable form

Hospital management

Hospital management record

Staff requirement

Existing medical database.

Survey and literature

SURVEY

Analytics tools like python

Update details

Data

Data Collecting

Data integrity → Data Preprocessing

Cleaned matrix

➤ Data is collected through various data sets.

➤ This collected data is integrated and preprocessed.

➤ After preprocessing the data it is formed into matrix which will be easy to extract.

➤ Extracting data the data is normalized which helps the user to understand the data.

➤ Selecting the features required which fascinate the users.

➤ Splitting the data and testing the data whether it is working accurately or not.

➤ Inserting the training data based on the length of stay.

➤ Inserting all the data extracted into the training model and predicting the length of stay.

Continous value ? — Yes → Data Normlalisation

Feature Selection

Data Splitting

Training Data

Predicted LOS ← Trained Model ← Model Test and Training ← LOS targeted