

# HACKMSIT-19

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➤ **Team members:**

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➤ **Theme:** Health/Fitness

## **IDEA**

A platform through which health patients can diagnose their chest scans(X-rays) and can be aware of their disease and illness.

Patients just have to upload the image and the ML model specifically trained for this inference, will run in background and tell the user about his medical condition.

## **For instance:**

Suppose a user uploads his/her chest X-ray on the website ,ML model will run in the background and do the inference and will analyze the given image and will tell the user that he has 98% of Pneumonia.

## **Plan Of Action**

Idea starts with the development of the website with user friendly UI and powerful server which can handle the requests and queries very well.

For frontend development, basic **HTML,CSS** and **Js** was used.

Login/SignUp and User Authentication was done using **SQLite Database**.

For backend development, **Flask**, A python web framework for server-side programming was used.

We used **Flask** because ML model was also written in python and It's easier to link both.

For ML, We used Keras(an advanced tensorflow library) for inference, we got the dataset from kaggle which contains more than 5500 datapoints to train the model.

Basically a supervised learning algorithm is used to train the model. After the training, the model is ready to deploy and predict on the website.

And Finally, the website can be deployed and hosted on the internet for whole world to use.