

## **Use Case 3. Disease Prediction**

### **Domain : Healthcare**

#### **Context :**

When anyone is currently afflicted with an illness, they must see a doctor, which is both time consuming and costly. It can also be difficult for the user if they are not near to doctors and hospitals because the illness cannot be identified. If the above procedure can be done using an automated software that saves time and money. If someone detected some major disease late then it can create some big problem for someone. I think data science might have been solve this problem

#### **Objective :**

So data science should help to identify these diseases and implement a personalized approach treatment and increase disease control effectively.

#### **Data :**

We can predict viral fever using these main features.

- Continuous sneezing
- Shivering
- Cold
- Body pain
- Acidity
- Cough

- Breathing problem
- High fever
- Headache

## **Models :**

Random forest Machine learning strategies include grouping, clustering, summarization, and many others. We can also use classification method on categorical data.

## **Conclusion :**

We can takes the users symptoms as an input and predict an output, which is disease prediction. So we can conclude that Using data science we can predict disease based on symptoms.