



# DISEASE PREDICTION PROJECT

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# DISEASES

A disease is a particular abnormal condition that negatively affects the structure or function of all or part of an organism, and that is not due to any immediate external injury.

Diseases are often known to be medical conditions that are associated with specific signs and symptoms.

# MACHINE LEARNING

**Machine learning** is a method of data analysis that automates analytical model building. It is a branch of artificial **intelligence** based on the idea that systems can learn from data, identify patterns and make decisions with minimal human intervention.

TWO TYPES :

1. SUPERVISED LEARNING
2. UN-SUPERVISED LEARNING

# SCIKIT LEARNING

**Scikit-learn** (Skllearn) is the most useful and robust library for machine **learning** in Python. It provides a selection of efficient tools for machine **learning** and statistical modeling including classification, regression, clustering and dimensionality reduction via a consistent interface in Python.

# DATASETS

DATASETS CONTAIN MORE THAN 4000 types of diseases !

Datasets Divided into 2 parts:

1. Testing
2. Training

# INPUT

*#We will give symptoms here-*

```
input_vector[[symptoms_dict['cramps'], symptoms_dict['cough']]] = 1
```

## OUTPUT

```
#Here, Result will be shown!
```

```
rf_clf.predict([input_vector])
```

```
array(['Varicose veins'], dtype=object)
```



# HI, THERE :)

-Projects is Research paper based

-Python Programming

-Mail me at **vatshayan007@gmail.com** to get Project Code, Project synopsis, PPT & Research paper of this Project.

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