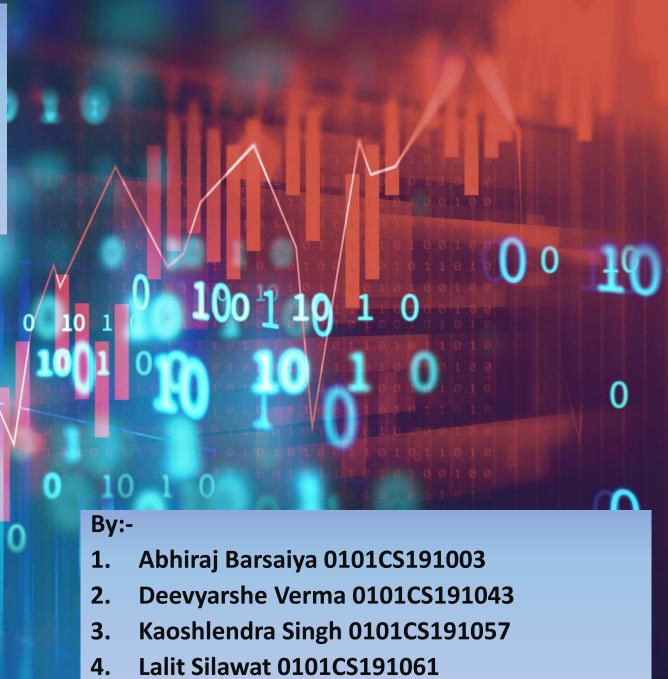
# MAJOR PROJECT

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### **MAJOR PROJECT**

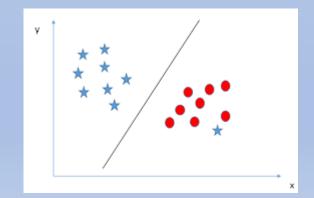
## LIVER AND LUNG DISEASE PRODNOSIS SYSTEM (Due to Covid)

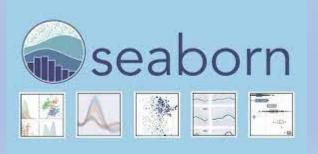
Different vaccines such as covi-shield and co-win were applied to applied to covid patients and others for treating covid or preventing it. But these vaccines comes with side effects on lung, liver and hearts. Our major projects deals with the prediction of risk a person has after treatment with that certain vaccine. Datasets and Machine Learning Models are used for this purpose.





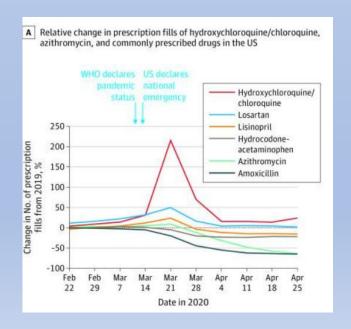


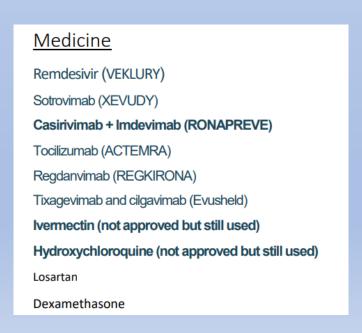


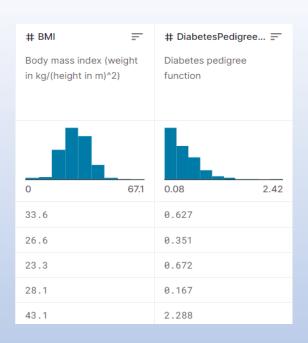


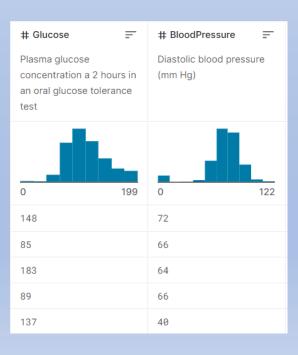
### **DATA SET**

To test our Model we will be creating our own dataset(dummy data) based on various medicines which were given to covid affected patients and others and taking notes the number of doses applied and keeping in mind their side effects. And to check our model's efficiency we will be testing it on datasets gathered from various organizations.









#### **MODELS USED**

#### Random Forest

Building the model using RandomForest

```
from sklearn.ensemble import RandomForestClassifier

rfc = RandomForestClassifier(n_estimators=200)

rfc.fit(X_train, y_train)
```

#### **Decision Tree**

Building the model using DecisionTree

```
from sklearn.tree import DecisionTreeClassifier

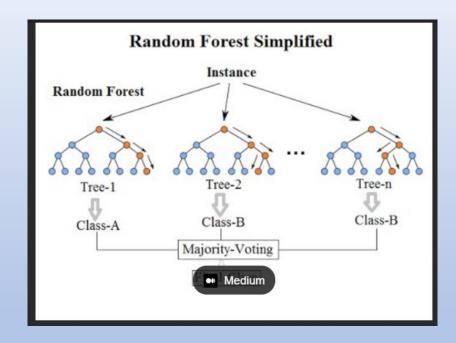
dtree = DecisionTreeClassifier()
dtree.fit(X_train, y_train)
```

### XgBoost classifier

**Building model using XGBoost** 

```
from xgboost import XGBClassifier

xgb_model = XGBClassifier(gamma=0)
xgb_model.fit(X_train, y_train)
```



#### **Random Forest**

The random forest algorithm is made up of a collection of decision trees, and each tree in the ensemble is comprised of a data sample drawn from a training set with replacement, called the bootstrap sample.

## **Thank You**