# PROJECT EXHIBITION -II

# GROUP-14

# Team

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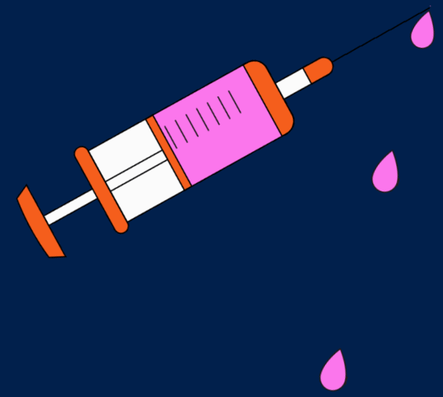
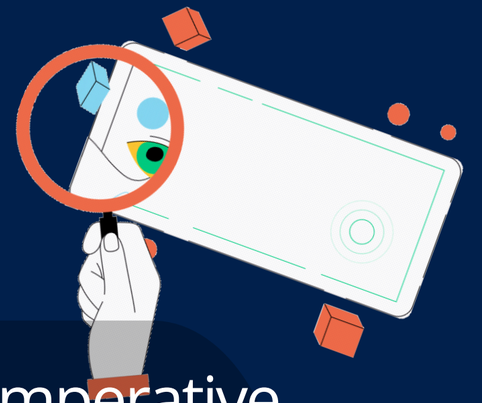
Topic

# BEST HOSPITAL DETECTION WITH ALL FACILITIES.

# INTRODUCTION



- In this era where Disease is killing more people than gunpowder, it is imperative to find a solution to control this outburst epidemic.
- Hence, we aim to create a simple, patient friendly, accurate as well as a very quick method of Best Hospital detection the knowledge of Diseases retinopathy.
- This is to provide the Best Hospital In your city of most common Diseases

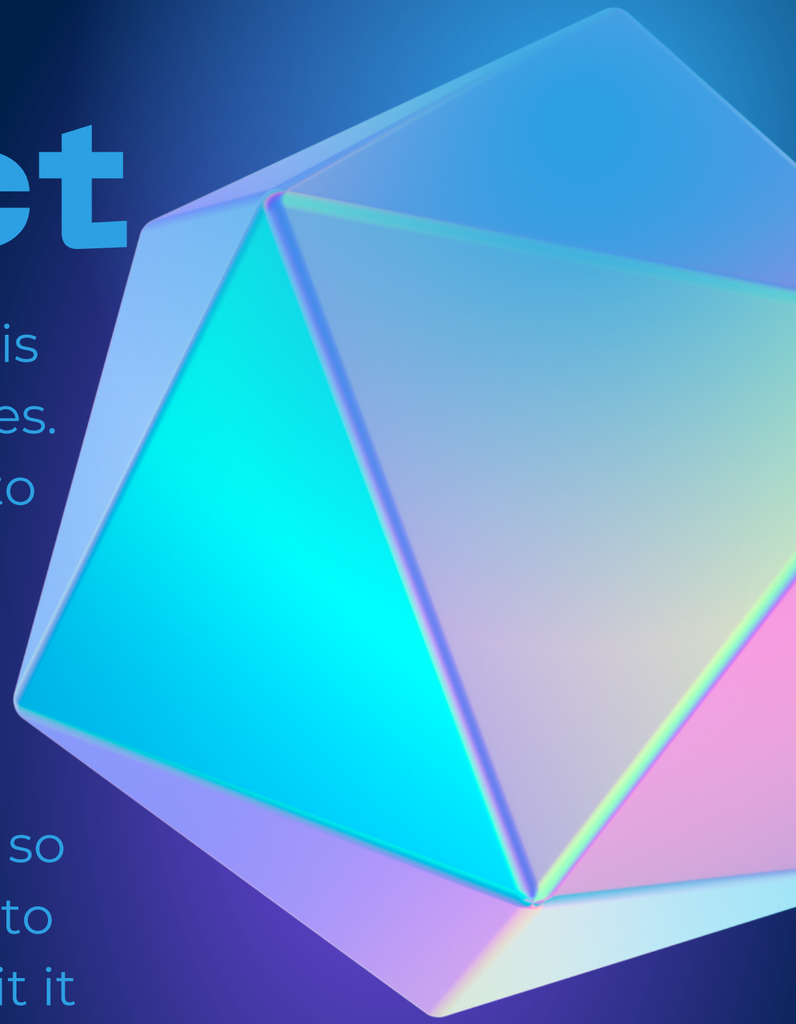
1. Cancer
2. Tuberculosis
3. Diabetes
4. Stroke
5. Black Death

- These Diseases are the foremost cause of dangerous health problems like heart strokes, eye problems, nervous system disturbance and kidney problem.
- This Project will help to predict the best hospital so that peoples can easily find the accurate place to visit with best prices and with best Facilities available in

# OBEJECTIVE/PROBLEM STATEMENT

- The aim of the project  is to investigate for model to predict Hospital with better accuracy.
- To check the behavior of the model with low to high training and testing data.
- Here we are using  Logistic Regression and K-Nearest Neighbour(KNN) classifier.
- The key word here we are using are Deep Learning, Classification, Prediction, Feature selection will be defined after programe here.

# Limitations Of the Project



This type of Model was not made yet in tne Business. This is the first Model of Best Hospital Predection with All Facilities. While studing all the data about theis project ,According to us the Limitations are-:

1. As we are the first to made this project so we rare making it on particular city i.e;- DELHI. so, it is not covering vast area
2. As we are not profectional , we are not having dataset so we have to collect it by internet by own so it it difficult to get large data as we are creating our owm dataset. so it it applicable only for medium dataset but accurately and truly.

# Roadmap/Methodology

## Data Collection

- A dataset is required to gather thre data and point the knowledgebase using theb database.

## Pre-processing

1. To Grayscale
2. Noise Removal
3. Grayscale to Bitmap
4. Resizeing
5. File management

## Analysis and Prediction

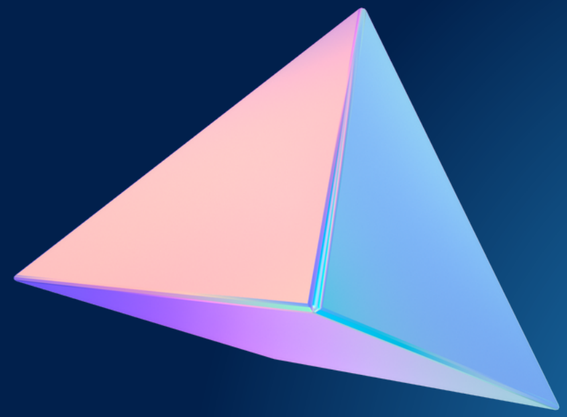
- Validating the dataset, Testing the dataset with our examples accuracy testong etc.

# SCOPE OF THE PROJECT

We have come to the result that our model is trained to produce 99% accurate results and is telling us the euclidean distance between the trained and the test graph will be teling us if the result is upgrading or not.

We can now conclude that siamese is the best model which can be use to predict best hospital due to its high accuracy and less time.

# NOVELTY OF THE PROJECT



Our project is based on K-Nearest Neighbour(KNN) model which has higher training and accuracy results as compare to other Algorithm. ours Model is more sharpened and better trained, even we are focused to reduce the time factor . We have also added sklearn, skit plot etc to check whether the prediction is accurate or not to save more time and to get better results.

# HARDWARE REQUIRED

LAN or wireless Adaptar

Memory Ram Min. 1GB

Processor: Min. 1 GHz

Hard Drive Min. 32GB

# SOFTWARE REQUIRED

- Window 7/Window 11 / Mac OS
- Web Browser - Microsoft Internet Explorer , Mozrilla , Goggle Chrome or Late.
- Goggle Colaboratory
- Various tools like - Pandas , sklearn , knn, Nupy Matplotlib etc.
- Pycharm
- Python

# APPLICATION

- We have proposed this system for Best Hospital detection using Iridology and a thorough understanding of varoius Diseases Retinopathy. These models are trained using a Medium dataset which we have obtained through publicly available platforms.
- Using this simple and efficient technique we have successfully carried out the process of detection. At this stage, we successfully implemented the model and obtained results. The system is quite efficient and carries out multiparameter classification for Best Hospital detection.
- The selected model uses the learnings and knowledge of Iridology and vzrious diseases Retinopathy. The proposed system has wide applications in the medical domain for infection  testing.
- This test is extremely simple, efficient, and non-invasive compared to the conventional method. These features make it extremely comfortable for the Users.

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File Edit View Insert Cell Kernel Help Trusted Python 3 (ipykernel)

Run Code

In [4]:
```
X_Train, X_Test, Y_Train, Y_Test = Data_Process()
feature_column = create_feature_column()


input_func = tf.compat.v1.estimator.inputs.pandas_input_fn(X_Train,
                                                           Y_Train,
                                                           batch_size=50,
                                                           num_epochs=1000,
                                                           shuffle=True)

eval_func = tf.compat.v1.estimator.inputs.pandas_input_fn(X_Test,
                                                          Y_Test,
                                                          batch_size=50,
                                                          num_epochs=1,
                                                          shuffle=False)
predict_input_fn = tf.compat.v1.estimator.inputs.pandas_input_fn(
      x=X_Test,
      num_epochs=1,
      shuffle=False)
```

```
WARNING:tensorflow:From C:\Users\djchi\AppData\Local\Programs\Python\Python310\lib\site-packages\tensorflow\python\util\lazy_loader.py:59: The name tf.estimator.inputs is deprecated. Please use tf.compat.v1.estimator.inputs instead.

WARNING:tensorflow:From C:\Users\djchi\AppData\Local\Temp\ipykernel_11284\3144276813.py:5: The name tf.estimator.inputs.pandas_input_fn is deprecated. Please use tf.compat.v1.estimator.inputs.pandas_input_fn instead.
```

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Logout

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Trusted

Python 3 (ipykernel)

Run

Code

In [5]:
```
dnnmodel = tf.estimator.DNNClassifier(
                                        hidden_units = [20,20],
                                        feature_columns = feature_column,
                                        n_classes=2,
                                        activation_fn=tf.nn.softmax,
                                        dropout=None,
                                        optimizer = tf.optimizers.Adam(learning_rate=0.01)
                                      )
```

```
INFO:tensorflow:Using default config.
WARNING:tensorflow:Using temporary folder as model directory: C:\Users\djchi\AppData\Local\Temp\tmpyv0ch_at
INFO:tensorflow:Using config: {'_model_dir': 'C:\\Users\\djchi\\AppData\\Local\\Temp\\tmpyv0ch_at', '_tf_random_seed': None, '_
save_summary_steps': 100, '_save_checkpoints_steps': None, '_save_checkpoints_secs': 600, '_session_config': allow_soft_placeme
nt: true
graph_options {
  rewrite_options {
    meta_optimizer_iterations: ONE
  }
}
, '_keep_checkpoint_max': 5, '_keep_checkpoint_every_n_hours': 10000, '_log_step_count_steps': 100, '_train_distribute': None,
'_device_fn': None, '_protocol': None, '_eval_distribute': None, '_experimental_distribute': None, '_experimental_max_worker_de
lay_secs': None, '_session_creation_timeout_secs': 7200, '_checkpoint_save_graph_def': True, '_service': None, '_cluster_spec':
ClusterSpec({}), '_task_type': 'worker', '_task_id': 0, '_global_id_in_cluster': 0, '_master': '', '_evaluation_master': '', '_
is_chief': True, '_num_ps_replicas': 0, '_num_worker_replicas': 1}
```

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Logo

Edit View Insert Cell Kernel Help Trusted Python 3 (ipykernel)

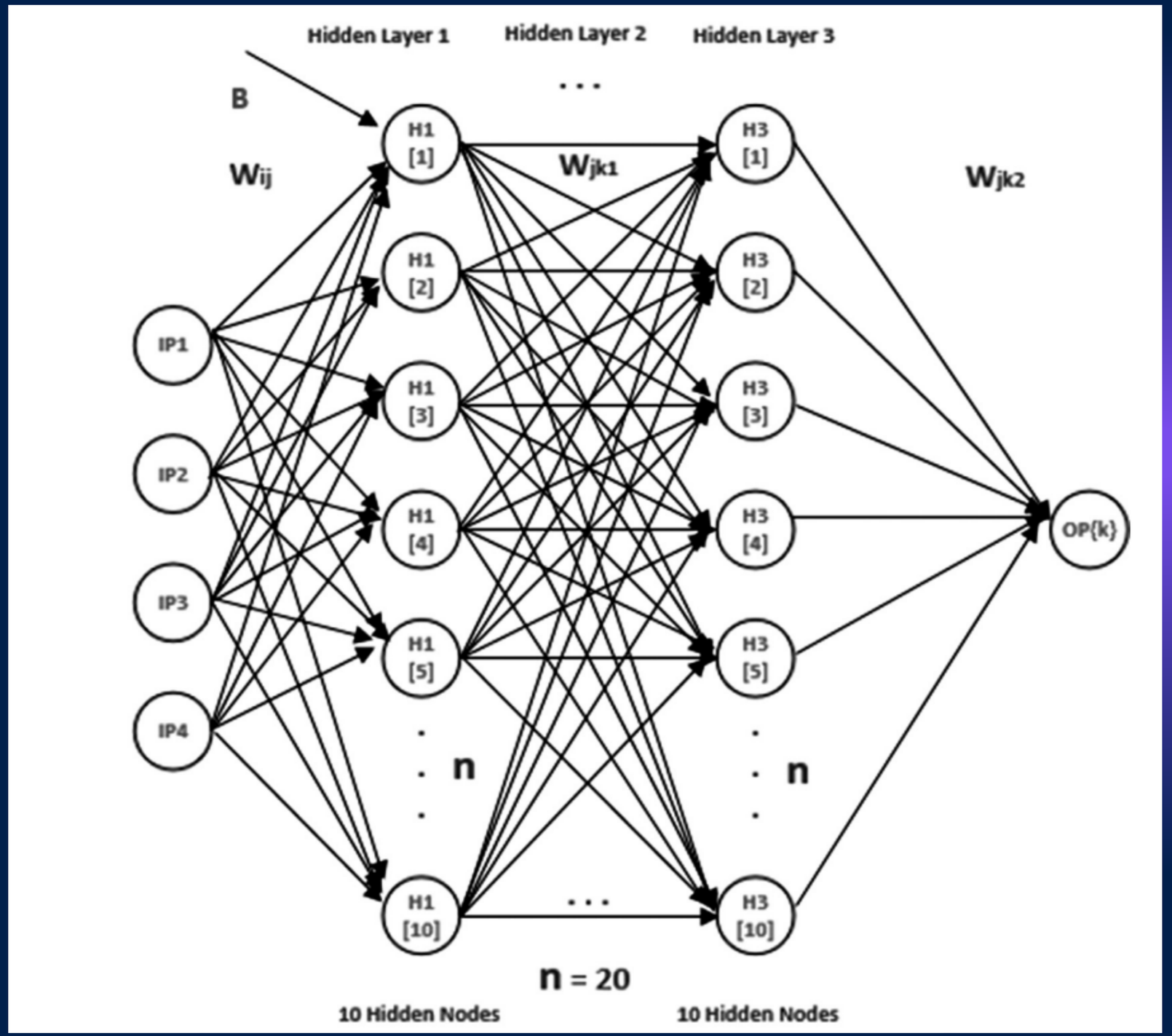
Run Code

```
is_chief': True, '_num_ps_replicas': 0, '_num_worker_replicas': 1}
```

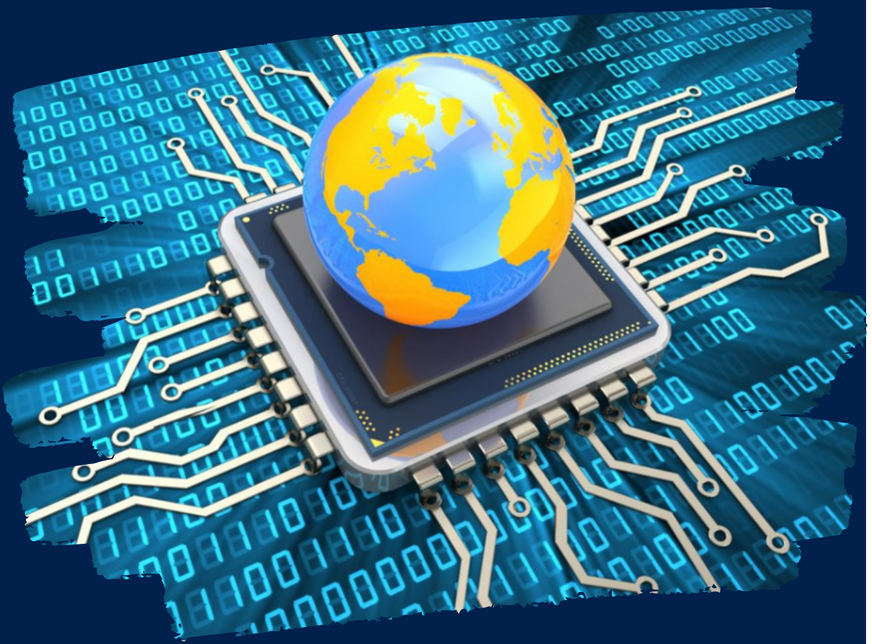
In [6]:
```
history = dnnmodel.train(input_fn=input_func,
                         steps=500)
```

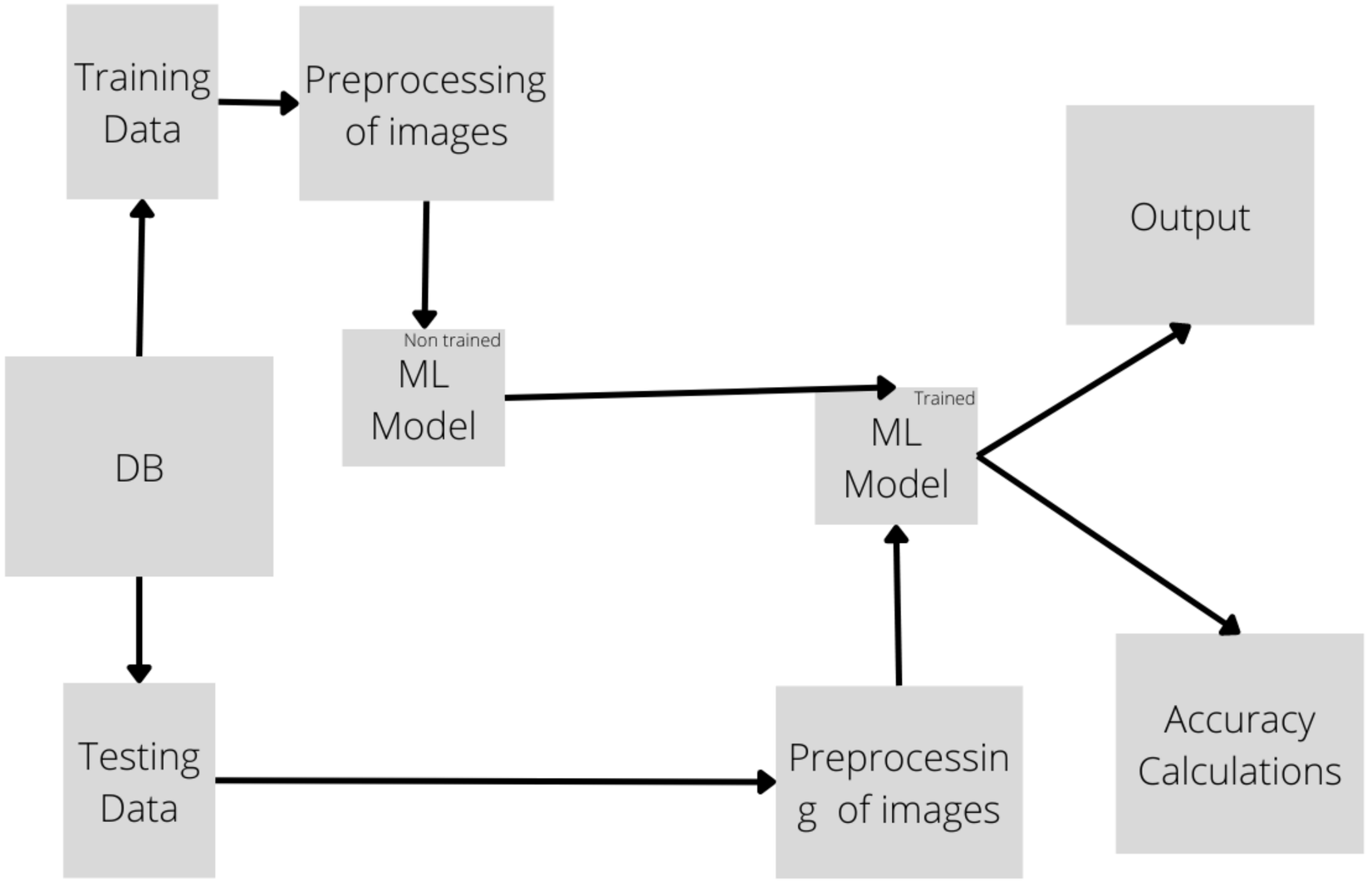
```
WARNING:tensorflow:From C:\Users\djchi\AppData\Local\Programs\Python\Python310\lib\site-packages\tensorflow\python\training\training_util.py:396: Variable.initialized_value (from tensorflow.python.ops.variables) is deprecated and will be removed in a future version.
Instructions for updating:
Use Variable.read_value. Variables in 2.X are initialized automatically both in eager and graph (inside tf.defun) contexts.
WARNING:tensorflow:From C:\Users\djchi\AppData\Local\Programs\Python\Python310\lib\site-packages\tensorflow_estimator\python\estimator\inputs\queues\feeding_queue_runner.py:60: QueueRunner.__init__ (from tensorflow.python.training.queue_runner_impl) is deprecated and will be removed in a future version.
Instructions for updating:
To construct input pipelines, use the `tf.data` module.
WARNING:tensorflow:From C:\Users\djchi\AppData\Local\Programs\Python\Python310\lib\site-packages\tensorflow_estimator\python\estimator\inputs\queues\feeding_functions.py:491: add_queue_runner (from tensorflow.python.training.queue_runner_impl) is deprecated and will be removed in a future version.
Instructions for updating:
To construct input pipelines, use the `tf.data` module.
INFO:tensorflow:Calling model_fn.
INFO:tensorflow:Done calling model_fn.
INFO:tensorflow:Create CheckpointSaverHook.
INFO:tensorflow:Graph was finalized.
INFO:tensorflow:Running local_init_op.
INFO:tensorflow:Done running local_init_op.
WARNING:tensorflow:From C:\Users\djchi\AppData\Local\Programs\Python\Python310\lib\site-packages\tensorflow\python\training\monitored_session.py:914: start_queue_runners (from tensorflow.python.training.queue_runner_impl) is deprecated and will be removed in a future version.
```

# ARCHITECTURE OF INNER WORKING

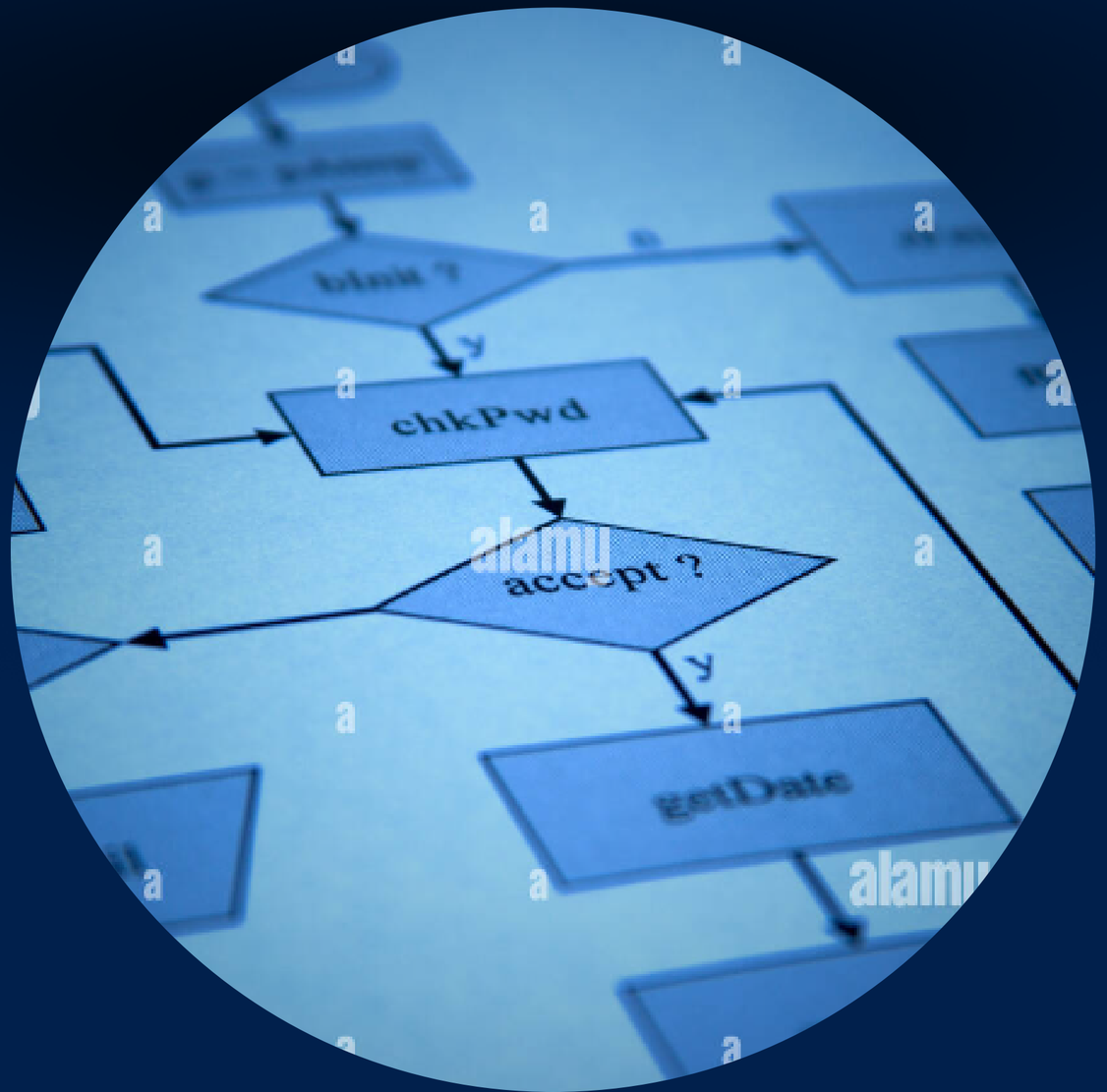



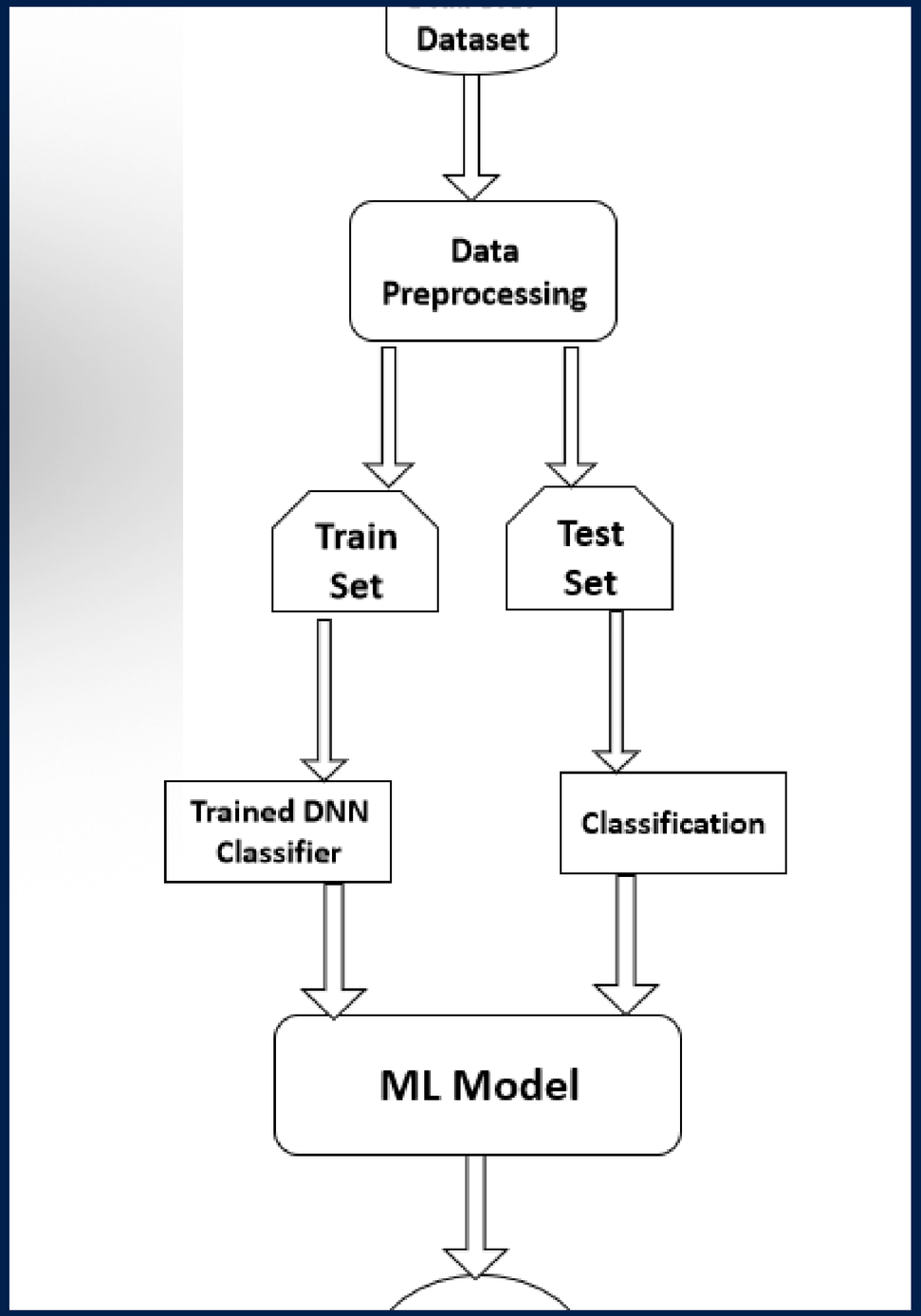
# ARCHITECTURE OF WHOLE PROJECT



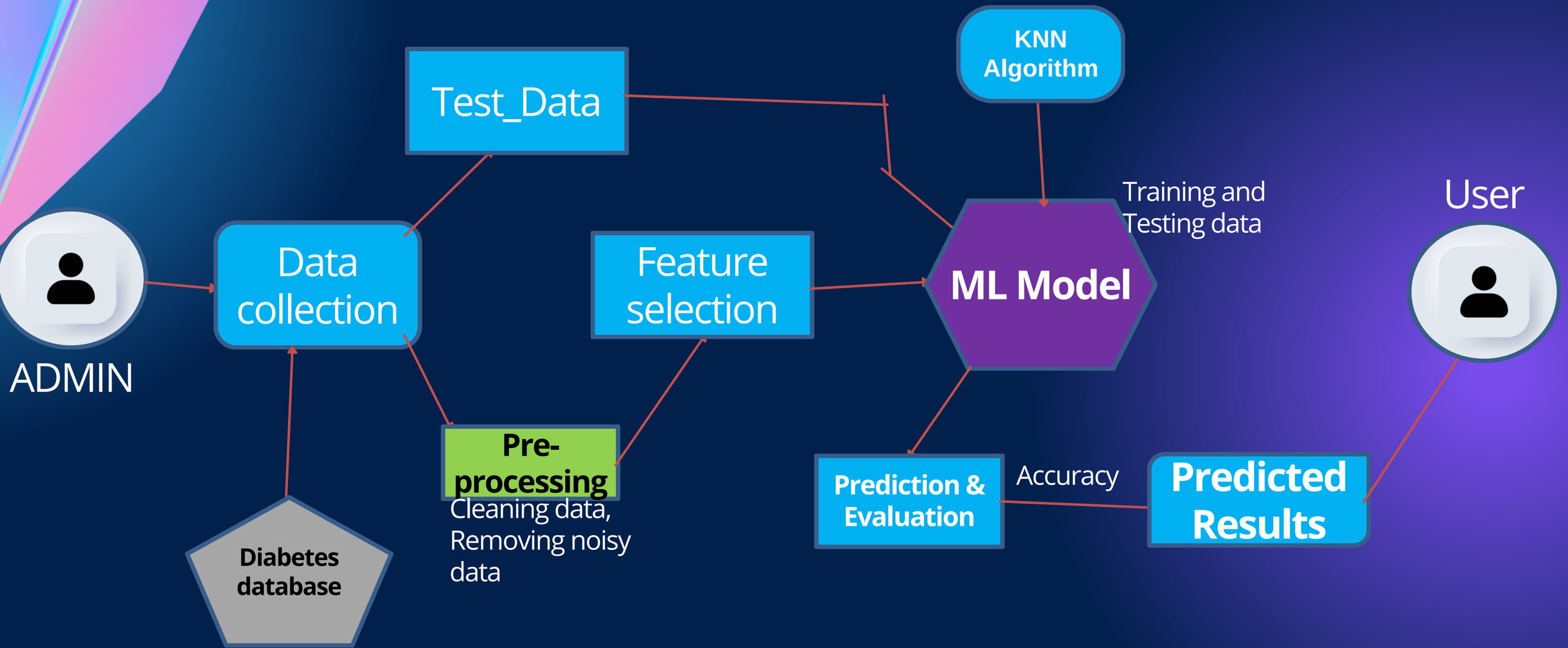


# FLOWCHART


chkPwd
accept ?
y
y
getData


Dataset
Data Preprocessing
Train Set
Test Set
Trained DNN Classifier
Classification
ML Model

# MODEL ARCHITECTURE



# Contibution of Each Memeber

## Akshat Kr. Tyagi

1. Collecting of dataset of Diabetes.
2. runnuing the test part of code.
3. working on Lgorithm
4. Applying bootstrap

## Vinayak Singh

1. Collecting the dataset of Cancer.
2. Running the train part of code.
3. Working on Css.
4. Handling the sklearn

## Prathamesh Gole

1. Collecting the dataset of Tuberculosis.
2. Running the train part of code.
3. Working on Python.
4. Handling Numpy ,Pandas etc.

# Contibution of Each Memeber

## Prashant Kr. Mishra

1. Collecting of dataset of Stroke.
2. runnuing the Train part of code.
3. working on HTML5
4. Handling Matplot liberary etc.

## Shubham Mahind

1. Collecting the dataset of Black Death.
2. Running the train part of code.
3. Working on Designing of the model.
4. Handling Graph, Map etc.

# THANK YOU