ICP 5 REPORT

```
from google.colab import drive
    drive.mount('/content/gdrive')

→ Mounted at /content/gdrive

[ ] path_to_csv = '/content/gdrive/My Drive/diabetes.csv'
[ ] import keras
     import pandas as pd
     import numpy as np
     from keras.models import Sequential
     from keras.layers import Dense
     from sklearn.model_selection import train_test_split
     # Load dataset
    dataset = pd.read_csv(path_to_csv, header=None).values
     X_train, X_test, Y_train, Y_test = train_test_split(dataset[:, 0:8], dataset[:, 8], test_size=0.25, random_state=87)
    np.random.seed(155)
     # Create a Sequential model
     model = Sequential()
    model.add(Dense(20, input_dim=8, activation='relu')) # First hidden layer
model.add(Dense(15, activation='relu')) # Second hidden layer
     model.add(Dense(10, activation='relu')) # Third hidden layer
```

```
# Add output layer with 'sigmoid' activation
    model.add(Dense(1, activation='sigmoid'))
    model.compile(loss='binary_crossentropy', optimizer='adam', metrics=['acc'])
    model_fitted = model.fit(X_train, Y_train, epochs=100, initial_epoch=0)
    print(model.summary())
    print(model.evaluate(X_test,Y_test))
₹
          0s 3ms/step - acc: 0.7320 - loss: 0.5313
          0s 3ms/step - acc: 0.7630 - loss: 0.5106
         - 0s 3ms/step - acc: 0.7514 - loss: 0.5113
         • 0s 3ms/step - acc: 0.7598 - loss: 0.4951
         • 0s 3ms/step - acc: 0.7385 - loss: 0.5289
         - 0s 4ms/step - acc: 0.7865 - loss: 0.4708
         - 0s 2ms/step - acc: 0.7925 - loss: 0.5023
          0s 3ms/step - acc: 0.7651 - loss: 0.5076
          0s 3ms/step - acc: 0.7805 - loss: 0.4785
          0s 4ms/step - acc: 0.7545 - loss: 0.5287
           US 3ms/step - acc: 0./514 - 10ss: 0.5113
0
글▼ •
           0s 3ms/step - acc: 0.7598 - loss: 0.4951
           0s 3ms/step - acc: 0.7385 - loss: 0.5289
          - 0s 4ms/step - acc: 0.7865 - loss: 0.4708
          • 0s 2ms/step - acc: 0.7925 - loss: 0.5023
          - 0s 3ms/step - acc: 0.7651 - loss: 0.5076
          • 0s 3ms/step - acc: 0.7805 - loss: 0.4785
           0s 4ms/step - acc: 0.7545 - loss: 0.5287
          - 0s 2ms/step - acc: 0.7672 - loss: 0.4902
          - 0s 3ms/step - acc: 0.7560 - loss: 0.4822
          - 0s 5ms/step - acc: 0.7590 - loss: 0.5205
          • 0s 3ms/step - acc: 0.7772 - loss: 0.4867
          - 0s 4ms/step - acc: 0.7625 - loss: 0.5112
          0s 3ms/step - acc: 0.7729 - loss: 0.4904
          - 0s 2ms/step - acc: 0.7186 - loss: 0.5284
          - 0s 2ms/step - acc: 0.7579 - loss: 0.5068
          - 0s 2ms/step - acc: 0.7777 - loss: 0.4927
```

```
Model: "sequential"
<del>____</del>
       Layer (type)
                                                       Output Shape
                                                                                                     Param #
       dense (Dense)
      Total params: 2,300 (7.82 KB)
Trainable params: 666 (2.60 KB)
Non-trainable params: 0 (0.00 B)
Optimizer params: 1,334 (5.21 KB)
     None
                                  - 0s 4ms/step - acc: 0.6987 - loss: 0.5817
     [0.6005145907402039, 0.6875]
[] import keras
     import pandas as pd
     import numpy as np
     from keras.models import Sequential
     from keras.layers import Dense
     from sklearn.model_selection import train_test_split
     from sklearn.preprocessing import StandardScaler
     # Load dataset
     dataset = pd.read csv(path to csv, header=None).values
     # Split the dataset into features (X) and target (Y)
```

```
X = dataset[:, 0:8]
Y = dataset[:, 8]
# Normalize the feature data
sc = StandardScaler()
X = sc.fit_transform(X)
# Split the dataset into training and testing sets
X train, X test, Y train, Y test = train test split(X, Y, test size=0.25, random state=87)
np.random.seed(155)
model = Sequential()
model.add(Dense(20, input_dim=8, activation='relu')) # First hidden layer
model.add(Dense(15, activation='relu')) # Second hidden layer
model.add(Dense(10, activation='relu')) # Third hidden layer
# Add output layer with 'sigmoid' activation
model.add(Dense(1, activation='sigmoid'))
# Compile the model using binary crossentropy and adam optimizer
model.compile(loss='binary_crossentropy', optimizer='adam', metrics=['acc'])
# Train the model
model fitted = model.fit(X train, Y train, epochs=100, initial epoch=0)
```

```
print(model.summary())
     print(model.evaluate(X_test,Y_test))
₹ 100
                       0s 2ms/step - acc: 0.8451 - loss: 0.3483
                       0s 2ms/step - acc: 0.8766 - loss: 0.3105
    100
                       0s 2ms/step - acc: 0.8507 - loss: 0.3373
                       0s 2ms/step - acc: 0.8457 - loss: 0.3413
    L00
                       0s 2ms/step - acc: 0.8541 - loss: 0.3339
    100
                       0s 2ms/step - acc: 0.8452 - loss: 0.3529
    L00
                       0s 2ms/step - acc: 0.8629 - loss: 0.3129
    100
                       0s 2ms/step - acc: 0.8863 - loss: 0.2953
    100
                       0s 2ms/step - acc: 0.8625 - loss: 0.3426
    L00
                       0s 2ms/step - acc: 0.8379 - loss: 0.3341
                       0s 2ms/step - acc: 0.8929 - loss: 0.2953
                       0s 2ms/step - acc: 0.8572 - loss: 0.3266
    100
                       0s 2ms/step - acc: 0.8670 - loss: 0.3124
    L00
                       0s 3ms/step - acc: 0.8813 - loss: 0.3034
    L00
                       0s 2ms/step - acc: 0.8788 - loss: 0.3176
    100
 L00
                     0s 2ms/step - acc: 0.8670 - loss: 0.3124
 ₹ 100
                     0s 3ms/step - acc: 0.8813 - loss: 0.3034
                     0s 2ms/step - acc: 0.8788 - loss: 0.3176
    100
                     0s 2ms/step - acc: 0.8844 - loss: 0.2940
                     0s 2ms/step - acc: 0.8860 - loss: 0.2951
                     0s 2ms/step - acc: 0.8716 - loss: 0.3050
    1100
                     0s 2ms/step - acc: 0.8935 - loss: 0.2897
    equential_1"
                                   Output Shape
                                                                       Param #
     type)
     `ams: 2
    : params: 666 (2.60 KB)
lable params: 0 (0.00 B)
params: 1,334 (5.21 KB)
                   0s 3ms/step - acc: 0.7612 - loss: 0.5396
     )185638428, 0.7708333134651184]
```

```
import keras
     import pandas
     from keras.models import Sequential
     from keras.layers import Dense, Activation
     # load dataset
     from sklearn.model_selection import train_test_split
     import pandas as pd
     import numpy as np
     dataset = pd.read_csv(path_to_csv1, header=None).values
     Y = np.where(Y == 'M', 1, 0) # M -> 1, B -> 0
     X = X.astype(np.float64) # Convert X to numeric
     X_train, X_test, Y_train, Y_test = train_test_split(X, Y,
                                                          test_size=0.25, random_state=87)
     np.random.seed(155)
     my_first_nn = Sequential() # create model
my_first_nn.add(Dense(20, input_dim=30, activation='relu')) # hidden layer
     my_first_nn.add(Dense(30, activation='relu')) # hidden layer
my_first_nn.add(Dense(40, activation='relu')) # hidden layer
my_first_nn.add(Dense(50, activation='relu')) # hidden layer
     my_first_nn.add(Dense(1, activation='sigmoid')) # output layer
     my_first_nn.compile(loss='binary_crossentropy', optimizer='adam', metrics=['acc'])
my_first_nn_fitted = my_first_nn.fit(X_train, Y_train, epochs=100,
                                                 initial_epoch=0)
     print(my_first_nn.summary())
     print(my_first_nn.evaluate(X_test,Y_test))
                            vs zms/stcp - acc. 1.0000 - 1055, 3.70400-24
→ 33/100
                            0s 2ms/step - acc: 1.0000 - loss: 5.5031e-24
    34/100
                            0s 2ms/step - acc: 1.0000 - loss: 5.4153e-24
    35/100
                            0s 2ms/step - acc: 1.0000 - loss: 2.2958e-24
    36/100
                            0s 4ms/step - acc: 1.0000 - loss: 1.9675e-24
    37/100
                            0s 4ms/step - acc: 1.0000 - loss: 7.5888e-24
    38/100
                            • 0s 2ms/step - acc: 1.0000 - loss: 1.3166e-23
    39/100
                            0s 2ms/step - acc: 1.0000 - loss: 7.6699e-24
    10/100
                            0s 2ms/step - acc: 1.0000 - loss: 2.3326e-23
    )1/100
                            0s 3ms/step - acc: 1.0000 - loss: 2.4450e-24
    )2/100
                            0s 3ms/step - acc: 1.0000 - loss: 1.6542e-23
```

```
0s 2ms/step - acc: 1.0000 - loss: 2.3396e-24
)4/100
                            0s 2ms/step - acc: 1.0000 - loss: 1.3034e-23
⋽ 95/100
                            0s 3ms/step - acc: 1.0000 - loss: 3.3075e-24
    )6/100
                            0s 2ms/step - acc: 1.0000 - loss: 3.1866e-24
    17/100
                            0s 3ms/step - acc: 1.0000 - loss: 6.2356e-24
    18/100
                            0s 2ms/step - acc: 1.0000 - loss: 2.3511e-23
    9/100
                            0s 3ms/step - acc: 1.0000 - loss: 6.8578e-24
    100/100
                            0s 3ms/step - acc: 1.0000 - loss: 6.6986e-24
     "sequential_2"
    · (type)
                                            Output Shape
                                                                                       Param #
    :_10 (Dense)
    params: 13,775 (53.81 KB)
ible params: 4,591 (17.93 KB)
'ainable params: 0 (0.00 B)
lzer params: 9,184 (35.88 KB)
                        - 0s 3ms/step - acc: 1.0000 - loss: 3.0633e-20
    !739457184e-20, 1.0]
```

```
Optimizer params: 9,184 (35.88 KB)
    None
₹
   5/5 -
                          — 0s 3ms/step - acc: 1.0000 - loss: 3.0633e-20
    [5.8962739457184e-20, 1.0]
   import keras
    import pandas
    from keras.models import Sequential
    from keras.layers import Dense, Activation
    # load dataset
    from sklearn.model_selection import train_test_split
    #from sklearn.preprocessing import StandardScaler
    import pandas as pd
    import numpy as np
    dataset = pd.read_csv(path_to_csv1, header=None).values
    X = dataset[1:, 2:-1] # Features
    Y = dataset[1:, -1] # Labels (M or B)
    Y = np.where(Y == 'M', 1, 0) # M -> 1, B -> 0
    X = X.astype(np.float64) # Convert X to numeric
    X_train, X_test, Y_train, Y_test = train_test_split(X, Y,
                                                        test_size=0.25, random_state=87)
```

```
Epoch 7/100
0
    14/14
                               0s 4ms/step - acc: 1.0000 - loss: 0.0016
14/14
                              - 0s 7ms/step - acc: 1.0000 - loss: 0.0012
    Epoch 9/100
    14/14
                               0s 3ms/step - acc: 1.0000 - loss: 0.0010
    Epoch 10/100
    14/14
                              - 0s 5ms/step - acc: 1.0000 - loss: 8.7806e-04
    Epoch 11/100
    14/14
                               0s 3ms/step - acc: 1.0000 - loss: 6.3084e-04
    Epoch 12/100
    14/14
                              - 0s 7ms/step - acc: 1.0000 - loss: 5.6421e-04
    Epoch 13/100
    14/14
                               0s 13ms/step - acc: 1.0000 - loss: 5.2709e-04
    Epoch 14/100
                               0s 9ms/step - acc: 1.0000 - loss: 3.8428e-04
    14/14 -
    Epoch 15/100
    14/14
                               0s 4ms/step - acc: 1.0000 - loss: 2.3100e-04
    Epoch 16/100
    14/14
                               0s 3ms/step - acc: 1.0000 - loss: 2.2936e-04
    Epoch 17/100
    14/14
                               0s 5ms/step - acc: 1.0000 - loss: 2.1114e-04
    Epoch 18/100
    14/14
                               0s 8ms/step - acc: 1.0000 - loss: 1.2757e-04
    Epoch 19/100
                               0s 7ms/step - acc: 1.0000 - loss: 1.5042e-04
    14/14
    Epoch 20/100
                               0s 4ms/step - acc: 1.0000 - loss: 1.6276e-04
    14/14
    Epoch 21/100
    14/14
                               0s 4ms/step - acc: 1.0000 - loss: 1.0686e-04
    Epoch 22/100
    14/14 -
                               0s 5ms/step - acc: 1.0000 - loss: 8.6160e-05
    Epoch 23/100
    14/14 -
                              0s 4ms/step - acc: 1.0000 - loss: 8.4084e-05
```

| Forch 24/140 | | | |
|---|---|--------------|--|
| 14/14 | ^ | | 03 4m3/3ccp acc. 110000 1033. 0.4004c 02 |
| Epoch 25/100 14/14 | | | - 0s 9ms/step - acc: 1.0000 - loss: 8.1183e-05 |
| Epoch 26/100 14/14 | | | |
| 14/14 | | 14/14 | - 0s 4ms/step - acc: 1.0000 - loss: 7.0593e-05 |
| Epoch 27/100 14/14 | | | |
| 14/14 | | | – 0s 3ms/step - acc: 1.0000 - loss: 8.4707e-05 |
| Epoch 14/14 | | | |
| 14/14 | | | - 0s 3ms/step - acc: 1.0000 - loss: 6.0599e-05 |
| Epoch 29/100 14/14 | | | - 00 5mc/ctop 2001 1 0000 1000 7 49430 05 |
| 14/14 | | | - 03 Jiis/Step - acc. 1.0000 - 1055. 7.4045e-03 |
| Epoch 30/100 14/14 | | | - 0s 8ms/step - acc: 1.0000 - loss: 5.2547e-05 |
| Epoch 31/100 14/14 | | | |
| 14/14 | | 14/14 | - 0s 3ms/step - acc: 1.0000 - loss: 3.3969e-05 |
| Epoch 32/100 14/14 | | | |
| 14/14 | | | – 0s 9ms/step - acc: 1.0000 - loss: 5.7337e-05 |
| Epoch 33/100 14/14 | | | 8- F(-t |
| 14/14 | | | — us эms/step - acc: 1.0000 - 10ss: 4.91/0e-из |
| Epoch 34/100 14/14 | | | - 05 5ms/stan - 2001 1 0000 - loss 2 07/00-05 |
| 14/14 | | | 03 Jiis/step - acc. 1.0000 - 1033. 2.3749e-03 |
| 14/14 | | | - 0s 5ms/step - acc: 1.0000 - loss: 3.5653e-05 |
| Epoch 36/100 14/14 | | Epoch 35/100 | |
| 14/14 | | | - 0s 3ms/step - acc: 1.0000 - loss: 3.1122e-05 |
| Epoch 37/100 14/14 | | | |
| 14/14 | | | – 0s 3ms/step - acc: 1.0000 - loss: 3.1609e-05 |
| Epoch 38/100 14/14 — 0s 5ms/step - acc: 1.0000 - loss: 4.3771e-05 Epoch 39/100 | | | - 00 5mc/ctop 2001 1 0000 1000 2 59660 05 |
| 14/14 8s 5ms/step - acc: 1.0000 - loss: 4.3771e-05 Epoch 39/100 | | | 9 July/Step - acc. 1.0000 - 1035. 3.3000e-03 |
| Epoch 39/100 | | | - 0s 5ms/step - acc: 1.0000 - loss: 4.3771e-05 |
| 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | | |
| 14/14 —————————————————————————————————— | | 14/14 | - 0s 6ms/step - acc: 1.0000 - loss: 2.8046e-05 |
| Epoch 40/100 | | | |
| 14/14 | | 14/14 | – 0s 6ms/step - acc: 1.0000 - loss: 1.9907e-05 |

| [] | Epoch | 41/100 | | |
|----------|----------------|-------------------|------------|--|
| <u>-</u> | | | 0s | 4ms/step - acc: 1.0000 - loss: 3.5813e-05 |
| ₹ | | 42/100 | | |
| | | | 0s | 7ms/step - acc: 1.0000 - loss: 2.5293e-05 |
| | | 43/100 | 00 | 8ms/step - acc: 1.0000 - loss: 1.9264e-05 |
| | | 44/100 | 05 | oms/step - acc. 1:0000 - 1055. 1:9204e-05 |
| | 14/14 | | 0s | 5ms/step - acc: 1.0000 - loss: 2.1780e-05 |
| | | 45/100 | | |
| | 14/14 | | 0s | 12ms/step - acc: 1.0000 - loss: 1.7480e-05 |
| | | 46/100 | | |
| | 14/14 | | 0s | 11ms/step - acc: 1.0000 - loss: 1.9936e-05 |
| | | 47/100 ——————— | 0- | 2mg/ston 2001 1 0000 12001 1 70472 05 |
| | | 48/100 | 05 | 3ms/step - acc: 1.0000 - loss: 1.7947e-05 |
| | | | 0s | 3ms/step - acc: 1.0000 - loss: 2.0831e-05 |
| | | 49/100 | | |
| | 14/14 | | 0s | 3ms/step - acc: 1.0000 - loss: 1.4722e-05 |
| | | 50/100 | | |
| | | | 0s | 4ms/step - acc: 1.0000 - loss: 1.6388e-05 |
| | | 51/100 | 0- | 2/ 4 0000 1 4 4400- 05 |
| | | 52/100 | 0 S | 3ms/step - acc: 1.0000 - loss: 1.4409e-05 |
| | | | 0 s | 3ms/step - acc: 1.0000 - loss: 1.7394e-05 |
| | | 53/100 | - | 3m3, 3tep door 110000 10001 11755 te 05 |
| | | | 0s | 3ms/step - acc: 1.0000 - loss: 1.6754e-05 |
| | | 54/100 | | |
| | 14/14 | | 0s | 3ms/step - acc: 1.0000 - loss: 1.1243e-05 |
| | | 55/100 | 0- | 4/ |
| | 14/14 Enoch | 56/100 | US | 4ms/step - acc: 1.0000 - loss: 1.1512e-05 |
| | 14/14 | | 0s | 3ms/step - acc: 1.0000 - loss: 1.1118e-05 |
| | | 57/100 | | |
| | 14/14 | | 0s | 3ms/step - acc: 1.0000 - loss: 1.7493e-05 |
| | | | | |

```
14/14
                           0s 3ms/step - acc: 1.0000 - loss: 1.7493e-05
Epoch 58/100
14/14
                           0s 3ms/step - acc: 1.0000 - loss: 1.5340e-05
Epoch 59/100
14/14
                           0s 3ms/step - acc: 1.0000 - loss: 1.2474e-05
Epoch 60/100
14/14
                           0s 4ms/step - acc: 1.0000 - loss: 1.0299e-05
Epoch 61/100
14/14
                           0s 4ms/step - acc: 1.0000 - loss: 9.9197e-06
Epoch 62/100
14/14
                           0s 5ms/step - acc: 1.0000 - loss: 1.3964e-05
Epoch 63/100
14/14
                           0s 4ms/step - acc: 1.0000 - loss: 1.0329e-05
Epoch 64/100
14/14
                           0s 5ms/step - acc: 1.0000 - loss: 1.4529e-05
Epoch 65/100
14/14
                           0s 7ms/step - acc: 1.0000 - loss: 9.2856e-06
Epoch 66/100
14/14
                           0s 5ms/step - acc: 1.0000 - loss: 6.5939e-06
Epoch 67/100
14/14
                           0s 3ms/step - acc: 1.0000 - loss: 5.6795e-06
Epoch 68/100
14/14
                           0s 5ms/step - acc: 1.0000 - loss: 7.3987e-06
Epoch 69/100
14/14
                           0s 3ms/step - acc: 1.0000 - loss: 6.1561e-06
Epoch 70/100
14/14
                           0s 4ms/step - acc: 1.0000 - loss: 7.7660e-06
Epoch 71/100
14/14
                           0s 3ms/step - acc: 1.0000 - loss: 1.1675e-05
Epoch 72/100
14/14
                           0s 2ms/step - acc: 1.0000 - loss: 1.2385e-05
Epoch 73/100
14/14
                           0s 2ms/step - acc: 1.0000 - loss: 9.9271e-06
Epoch 74/100
```

```
us zms/step - acc: 1.0000 - 10ss: 9.8653e-06
Epoch 75/100
    14/14
                               0s 2ms/step - acc: 1.0000 - loss: 8.9551e-06
₹
    Epoch 76/100
    14/14 -
                               0s 3ms/step - acc: 1.0000 - loss: 5.6452e-06
    14/14
                               0s 2ms/step - acc: 1.0000 - loss: 5.5384e-06
    Epoch 78/100
                               0s 2ms/step - acc: 1.0000 - loss: 5.2825e-06
    14/14
    14/14
                               0s 2ms/step - acc: 1.0000 - loss: 6.7665e-06
    Epoch 80/100
    14/14
                               0s 2ms/step - acc: 1.0000 - loss: 5.2460e-06
    Epoch 81/100
    14/14
                               0s 3ms/step - acc: 1.0000 - loss: 3.9280e-06
    Epoch 82/100
                               0s 3ms/step - acc: 1.0000 - loss: 5.6404e-06
    14/14
    Epoch 83/100
                              • 0s 2ms/step - acc: 1.0000 - loss: 7.9074e-06
    14/14
    Epoch 84/100
    14/14
                              0s 2ms/step - acc: 1.0000 - loss: 7.4575e-06
    Epoch 85/100
    14/14
                              0s 2ms/step - acc: 1.0000 - loss: 5.2450e-06
    14/14
                               0s 2ms/step - acc: 1.0000 - loss: 5.1166e-06
                               0s 3ms/step - acc: 1.0000 - loss: 5.7406e-06
    14/14
    Epoch 88/100
    14/14
                               0s 2ms/step - acc: 1.0000 - loss: 4.1102e-06
    Epoch 89/100
    14/14
                               0s 2ms/step - acc: 1.0000 - loss: 6.0938e-06
    Epoch 90/100
                               0s 2ms/step - acc: 1.0000 - loss: 3.7932e-06
    14/14
    Epoch 91/100
    14/14
                               0s 2ms/sten - acc: 1.0000 - loss: 3.4277e-06
```

```
US 4MS/Step - acc: 1.0000 - 10SS: 3.3689e-06
14/14 -
                          0s 3ms/step - acc: 1.0000 - loss: 4.6541e-06
Epoch 94/100
14/14 -
                          0s 2ms/step - acc: 1.0000 - loss: 3.5622e-06
Epoch 95/100
14/14 -
                          0s 2ms/step - acc: 1.0000 - loss: 5.1818e-06
Epoch 96/100
14/14 -
                          0s 2ms/step - acc: 1.0000 - loss: 3.5201e-06
14/14 -
                          0s 2ms/step - acc: 1.0000 - loss: 3.9748e-06
Epoch 98/100
14/14
                          0s 2ms/step - acc: 1.0000 - loss: 2.9670e-06
14/14 -
                          0s 2ms/step - acc: 1.0000 - loss: 2.5104e-06
Epoch 100/100
14/14 -
                          0s 2ms/step - acc: 1.0000 - loss: 2.7179e-06
Model: "sequential_3"
 Layer (type)
                                        Output Shape
                                                                              Param #
  dense_13 (Dense)
  dense_14 (Dense)
```

Total params: 13,775 (53.81 KB)
Trainable params: 4,591 (17.93 KB)
Non-trainable params: 0 (0.00 B)
Optimizer params: 9,184 (35.88 KB)

dense_15 (Dense)

dense_16 (Dense)

dense_17 (Dense)

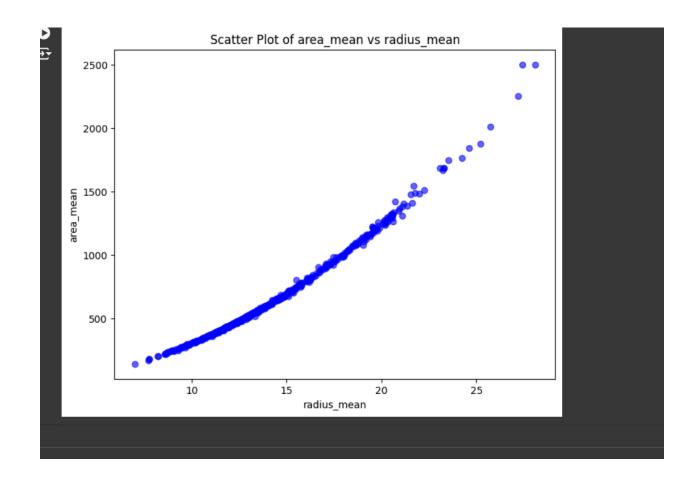
None

```
[] 5/5 — 9s 4ms/step - acc: 1.0000 - loss: 9.2803e-06
[6.10252618571394le-06, 1.0]

path_to_csv1 = '/content/gdrive/My Drive/breastcancer.csv'

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| import pandas as pd import matplotlib.pyplot as plt |
| toad the dataset |
| data = pd.read_csv('/content/gdrive/My Drive/breastcancer.csv') |
| # Print the column names to help you choose the correct columns |
| print(data.columns) |
| # Replace 'X_column' and 'Y_column' with actual numeric column names from your csv file |
| x_column = 'radius_mean' | # Replace this with the actual column name for X-axis (e.g., 'Age') |
| y_column = 'area_mean' | # Replace this with the actual column name for Y-axis (e.g., 'Tumor_Size') |
| # Create a scatter plot |
| plt.figure(figsize-(8, 6)) |
| plt.scatter(data[x_column], data[y_column], color='blue', alpha=0.6) |
| # Add labels and title |
| plt.xlabel(x_column) |
| plt.title(f'Scatter Plot of {y_column} vs {x_column}') |
| # Show the plot |
| plt.show()
```



My Github link : - https://github.com/Nitish300903/bda.git