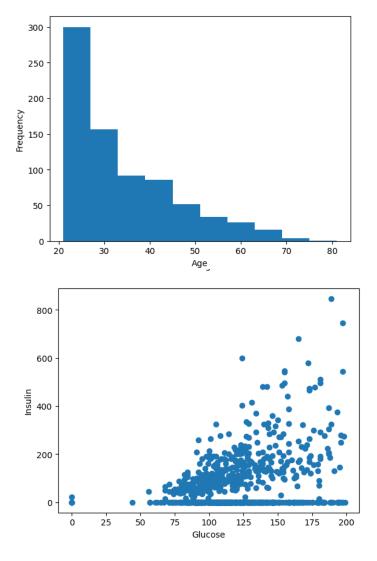
SUPERVISED LEARNING PROJECT

1) Importing the necessary libraries:

import numpy as np import pandas as pd from sklearn.preprocessing import StandardScaler from sklearn.model_selection import train_test_split from sklearn import svm from sklearn.metrics import accuracy_score

- 2) Loading the dataset using pandas
- 3) Used Matplotlib to make a couple of viz to detect outliers



- 4) Removed the outliers from Glucose and Insulin
- 5) Pre-processed the data using Scaler Standard to fit and standardize the dataframe

- 6) Split the data into Train and Test
- 7) Used Linear model using SVM Classifier
- 8) Checked for accuracy of the model
- 9) Made a predictive system

```
input_data = (5,166,72,19,175,25.8,0.587,51)
# changing the input_data to numpy array
input_data_as_numpy_array = np.asarray(input_data)
# reshape the array as we are predicting for one instance
input_data_reshaped = input_data_as_numpy_array.reshape(1,-1)
# standardize the input data
std_data = scaler.transform(input_data_reshaped)
print(std data)
prediction = classifier.predict(std data)
print (prediction)
if (prediction[0] == 0):
print('The person is not diabetic')
print('The person is diabetic')
[1]
The person is diabetic
```