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```
[16] classifier = svm.SVC(kernel='linear')
```

```
classifier.fit(X_train,Y_train)
```

```
[18] SVC(kernel='linear')
```

```
[ ] X_train_prediction = classifier.predict(X_train)
    training_data_accuracy = accuracy_score(X_train_prediction,Y_train)
```

```
[ ] print('Accuracy score of the training data :',training_data_accuracy)
```

```
[ ] Accuracy score of the training data : 0.7685497470489039
```

```
[ ] est_k={"Regular":0}
    best_source={"Regular":0}
    for k in range(3,50,2):
      knn_temp=KNeighborclassifier(n_neighbours=k)
      knn_temp.fit(X_train,Y_train)
      knn_temp_pred=knn_temp.predict(X_test)
      score=metrices.accuracy_score(Y_test,knn_temp_pred)*100
      if score>=best_score["Regular"]and score <100
        best_score["Regular"]=score
```

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```
[ ]  knn_temp_pred=knn_temp.predict(X_test)
     score=metrices.accuracy_score(Y_test,knn_temp_pred)*100
     if score>=best_score["Regular"]and score <100
       best_score["Regular"]=score
       best_k["Regular"]=k
```

```
[ ]  print("-----Results----\nk:{}".format(best_k,best_score))
     knn=KNeighborsclassifier(n_neighbors=best_k["Regular"])
     knn.fit(X_train,Y_train)
     knn_pred=knn.predict(X_test)
     tested=accuracy_score(knn_pred,Y_test)
```

```
[ ]  import tensorflow as tf
     from tensorflow import keras
     from keras.models import sequential
     from tensorflow.keras import layers
```

```
[ ]  classifier=sequential()
     classifier.add(keras.layers.Dense(6,activation='relu',input_din=6))
     classifier.add(keras.layers.Dropout(0.50))
     classifier.add(keras.layers.Dense(6,activation='relu'))
     classifier.add(keras.layers.Dropout(0.50))
     classifier.add(keras.layers.Dense(1,activation='sigmoid'))
```

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```
[ ] loss_1=tf.keras.losses.Binarycrossentropy()
    classifier.compile(optimizer='Adam',loss=loss_1,metrices=['accuracy'])
```

```
[ ] classifier.fit(X_train,Y_train,batch_size=20,epochs=100)
```

```
[ ] import pickle
      pickle.dump(knn,open("placement.pkl",'wb'))
      model=pickle.load(open('placement.pkl','rb'))
```

```
[ ] <section id="hero"class="d-flex flex-column justify-content-center">
     <div class="container">
      <div class="row justify-content-center">
       <div class="col-xl-8">
        <h1>Identifying Patterns and Trends in Campus Placement Data using Machine Learning</h1>
       </div>
      </div>
     </div>
    </section><!----End Hero---->
```

```
[ ] <section id="about"class="about">
     <div class="container">
      <div class="section-title>
```

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