Source Code

User side views.py

```
# Create your views here.
from django.shortcuts import render, HttpResponse
from django.contrib import messages
from .forms import UserRegistrationForm
from .models import UserRegistrationModel
from django.conf import settings
import os
import pandas as pd
# Create your views here.
def UserRegisterActions(request):
  if request.method == 'POST':
    form = UserRegistrationForm(request.POST)
    if form.is_valid():
       print('Data is Valid')
       form.save()
       messages.success(request, 'You have been successfully registered')
       form = UserRegistrationForm()
       return render(request, 'UserRegistrations.html', {'form': form})
    else:
       messages.success(request, 'Email or Mobile Already Existed')
       print("Invalid form")
  else:
    form = UserRegistrationForm()
  return render(request, 'UserRegistrations.html', {'form': form})
def UserLoginCheck(request):
  if request.method == "POST":
    loginid = request.POST.get('loginid')
    pswd = request.POST.get('pswd')
```

```
print("Login ID = ", loginid, ' Password = ', pswd)
    try:
       check = UserRegistrationModel.objects.get(loginid=loginid, password=pswd)
       status = check.status
       print('Status is = ', status)
       if status == "activated":
         request.session['id'] = check.id
         request.session['loggeduser'] = check.name
         request.session['loginid'] = loginid
         request.session['email'] = check.email
         print("User id At", check.id, status)
         return render(request, 'users/UserHomePage.html', { })
       else:
         messages.success(request, 'Your Account Not at activated')
         return render(request, 'UserLogin.html')
    except Exception as e:
       print('Exception is ', str(e))
       pass
    messages.success(request, 'Invalid Login id and password')
  return render(request, 'UserLogin.html', {})
def UserHome(request):
  return render(request, 'users/UserHomePage.html', { })
def viewDataSet(request):
  path = os.path.join(settings.MEDIA_ROOT, 'FinalDataSet.csv')
  df = pd.read_csv(path, encoding="ISO-8859-1")
  df = df[['source', 'user_name', 'FinalLabel', 'text', 'user_followers_count']]
  # print(df.head())
  df = df.to_html(index=None)
  return render(request, 'users/viewTweetDataset.html', {'data': df})
```

```
def userMachineLearning(request):
  from .utility import mlprocessings
  cr_lg = mlprocessings.start_logisticRegression()
  cr_nb = mlprocessings.start_naivebayes()
  cr_svm = mlprocessings.start_svm()
  cr_rnn = mlprocessings.start_recurrentNeurals()
  return render(request, 'users/MIResults.html', {'cr_lg': cr_lg, 'cr_nb': cr_nb, 'cr_svm':
cr_svm, 'cr_rnn': cr_rnn})
def start_test_predictions(request):
  if request.method == 'POST':
    tweets = request.POST.get('tweets')
    import os
    import pandas as pd
    from django.conf import settings
    from sklearn.feature_extraction.text import CountVectorizer
    import pickle
    from sklearn.model_selection import train_test_split
    path1 = os.path.join(settings.MEDIA_ROOT, 'FinalDataSet.csv')
    path = os.path.join(settings.MEDIA_ROOT, 'fakenews.alex')
    df = pd.read_csv(path1, encoding="ISO-8859-1")
    df.shape
    df['FinalLabel'] = df.FinalLabel.map({'REAL': 1, 'FAKE': 0})
    X_train, X_test, y_train, y_test = train_test_split(df['text'],
                                     df['FinalLabel'],
                                     random state=42)
    # Instantiate the CountVectorizer method
    count_vector = CountVectorizer(stop_words='english', lowercase=True)
    training_data = count_vector.fit_transform(X_train)
    # Transform testing data and return the matrix. Note we are not fitting the testing
data into the CountVectorizer()
```

```
testing_data = count_vector.transform(X_test)
    test = count_vector.transform([tweets])
    model = pickle.load(open(path, 'rb'))
    pred = model.predict(test)
    if pred[0] == 1:
       msg = 'REAL'
    else:
       msg = 'FAKE'
    print("===>", pred)
    return render(request, 'users/test_pred.html', {'tweet': tweets, 'msg': msg})
  else:
    return render(request, 'users/test_pred.html', { })
Base.html:
{% load static %}
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="utf-8">
 <meta name="viewport" content="width=device-width, initial-scale=1">
 <title>fake news</title>
 <meta name="description" content="Free Bootstrap Theme by BootstrapMade.com">
 <meta name="keywords" content="free website templates, free bootstrap themes, free
template, free bootstrap, free website template">
```

```
k rel="stylesheet" type="text/css"
```

%}">

k rel="stylesheet" type="text/css" href="{% static 'css/bootstrap.min.css' %}">

<link rel="stylesheet" type="text/css" href="{% static 'css/style.css' %}">

```
</head>
<body id="myPage" data-spy="scroll" data-target=".navbar" data-offset="60">
 <section id="banner" class="banner">
  <div class="bg-color">
   <nav class="navbar navbar-default navbar-fixed-top">
    <div class="container">
     <div class="col-md-12">
      <div class="navbar-header">
       <button type="button" class="navbar-toggle" data-toggle="collapse" data-
target="#myNavbar">
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
       </button>
      </div>
      <div class="collapse navbar-collapse navbar-right" id="myNavbar">
       class=""><a href="{% url 'index' %}">Home</a>
        class=""><a href="{% url 'UserLogin' %}">User</a>
        <a href="{% url 'AdminLogin' %}">Admin</a>
        <a href="{% url 'UserRegister' %}">Register</a>
       </div>
     </div>
    </div>
   </nav>
   <div class="container">
    <div class="row">
     <div class="banner-info">
      <div class="banner-logo text-center">
      </div>
```

```
<div class="banner-text text-center">
        <h1 class="white">FAKE news</h1>
        {% block contents %}
        <!-- <h3 style="color:white"> helloo</h3> -->
        {% endblock %}
        <!-- <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do
eiusmod <br/>br>tempor incididunt ut labore et dolore magna aliqua.
        <a href="#contact" class="btn btn-appoint">Make an Appointment.</a> -->
       </div>
       <div class="overlay-detail text-center">
        <a href="#service"><i class="fa fa-angle-down"></i></a>
       </div>
      </div>
    </div>
   </div>
  </div>
 </section>
 <footer id="footer">
  <div class="footer-line">
   <div class="container">
    <div class="row">
      <div class="col-md-12 text-center">
       © Copyright Alex Corporation. All Rights Reserved
       <div class="credits">
        <!--
        All the links in the footer should remain intact.
        You can delete the links only if you purchased the pro version.
        Licensing information: https://bootstrapmade.com/license/
        Purchase the pro version with working PHP/AJAX contact form:
https://bootstrapmade.com/buy/?theme=Medilab
```

```
-->
        <!-- Designed by <a
href="https://bootstrapmade.com/">BootstrapMade.com</a> -->
       </div>
     </div>
    </div>
   </div>
  </div>
 </footer>
 <!-- /footer -->
 <script src="{% static 'js/jquery.min.js' %}"></script>
 <script src="{% static 'js/jquery.easing.min.js' %}"></script>
 <script src="{% static 'js/bootstrap.min.js' %}"></script>
 <script src="{% static 'js/custom.js' %}"></script>
 <script src="{% static 'contactform/contactform.js' %}"></script>
</body>
</html>
Admin side admin_base.html:
{% load static %}
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="utf-8">
 <meta name="viewport" content="width=device-width, initial-scale=1">
 <title>FAKE NEWS</title>
 <meta name="description" content="Free Bootstrap Theme by BootstrapMade.com">
```

<meta name="keywords" content="free website templates, free bootstrap themes, free
template, free bootstrap, free website template">

```
<link rel="stylesheet" type="text/css"</pre>
href="https://fonts.googleapis.com/css?family=Open+Sans|Raleway|Candal">
 k rel="stylesheet" type="text/css" href="{% static 'css/font-awesome.min.css'
% }">
 k rel="stylesheet" type="text/css" href="{% static 'css/bootstrap.min.css' %}">
 k rel="stylesheet" type="text/css" href="{% static 'css/style.css' %}">
</head>
<body id="myPage" data-spy="scroll" data-target=".navbar" data-offset="60">
 <section id="banner" class="banner">
  <div class="bg-color">
   <nav class="navbar navbar-default navbar-fixed-top">
    <div class="container">
     <div class="col-md-12">
      <div class="navbar-header">
       <button type="button" class="navbar-toggle" data-toggle="collapse" data-
target="#myNavbar">
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
       </button>
       <h1 class="white">MACHINE LEARNING IN FAKE NEWS</h1>
      </div>
      <div class="collapse navbar-collapse navbar-right" id="myNavbar">
       cli class=""><a href="{% url 'AdminHome' %}">Home</a>
        <a href="{% url 'RegisterUsersView' %}">User
Details</a>
        <a href="{% url 'adminResults' %}">Results</a>
        cli class=""><a href="{% url 'index' %}">Logout</a>
```

```
</div>
    </div>
   </div>
  </nav>
  <div class="container">
   <div class="row">
    <div class="banner-info">
     <div class="banner-logo text-center">
     </div>
     <div class="banner-text text-center">
       {% block contents %}
       {% endblock %}
     </div>
     <div class="overlay-detail text-center">
       <a href="#service"><i class="fa fa-angle-down"></i></a>
     </div>
    </div>
   </div>
  </div>
 </div>
</section>
<footer id="footer">
 <div class="footer-line">
  <div class="container">
   <div class="row">
    <div class="col-md-12 text-center">
     © Copyright Alex Corporation. All Rights Reserved
     <div class="credits">
     </div>
    </div>
   </div>
```

```
</div>
 </div>
</footer>
<script src="{% static 'js/jquery.min.js' %}"></script>
<script src="{% static 'js/jquery.easing.min.js' %}"></script>
<script src="{% static 'js/bootstrap.min.js' %}"></script>
<script src="{% static 'js/custom.js' %}"></script>
<script src="{% static 'contactform/contactform.js' %}"></script>
</body>
</html>
Admin side view_registered_users.html:
{% extends 'admins/adminbase.html' %}
{% block contents %}
<section id="intro">
<div class="intro-text">
 >
  <h3 align="center" style="color:white;">View RegisterUser Details</h3>
 <br>
 <thead>
   <th>>S.No</th>
    Name
    Login ID
    Mobile
    Email
    Locality
    Status
    Activate
```

```
</thead>
  {% for i in data %}
   {{ forloop.counter }}
    {{ i.name }}
    {{ i.loginid }}
    {{ i.mobile }}
    {{ i.email }}
    {{ i.locality }}
    {{ i.status }}
    {% if i.status == 'waiting' %}
    <a class="btn-link" href="/ActivaUsers/?uid={{ i.id }}"
style="color:DARKBLUE">Activate</a>
    {% else %}
    Activated
    {% endif %}
   {% endfor %}
  </div>
</section>
{% endblock %}
```

Index.html:

```
{% extends 'base.html' % }
{% load static % }

{% block contents % }
<h3 style="color:white">Role of machine learning in fakenews</h3>
{% endblock % }
```