**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/MlResults.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">

<link rel="stylesheet" type="text/css" href="https://fonts.googleapis.com/css?family=Open+Sans|Raleway|Candal">

<link rel="stylesheet" type="text/css" href="{% static 'css/font-awesome.min.css' %]">

<link 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">

<ul class="nav navbar-nav">

<li class=""><a href="{% url 'index' %}">Home</a></li>

<li class=""><a href="{% url 'UserLogin' %}">User</a></li>

<li class=""><a href="{% url 'AdminLogin' %}">Admin</a></li>

<li class=""><a href="{% url 'UserRegister' %}">Register</a></li>

</ul>

</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>tempor incididunt ut labore et dolore magna aliqua.</p>-->

<!-- <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" href="https://fonts.googleapis.com/css?family=Open+Sans|Raleway|Candal">

<link rel="stylesheet" type="text/css" href="{% static 'css/font-awesome.min.css' %]">

<link 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>

<h1 class="white">MACHINE LEARNING IN FAKE NEWS</h1>

</div>

<div class="collapse navbar-collapse navbar-right" id="myNavbar">

<ul class="nav navbar-nav">

<li class=""><a href="{% url 'AdminHome' %}">Home</a></li>

<li class=""><a href="{% url 'RegisterUsersView' %}">User Details</a></li>

<li class=""><a href="{% url 'adminResults' %}">Results</a></li>

<li class=""><a href="{% url 'index' %}">Logout</a></li>

</ul>

</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">

<p><h3 align="center" style="color:white;">View RegisterUser Details</h3></p><br>

<table class="table table-bordered bg-light text-dark">

<thead>

<tr style="color:red;font-weight:bold;">

<th>S.No</th>

<th>Name</th>

<th>Login ID</th>

<th>Mobile</th>

<th>Email</th>

<th>Locality</th>

<th>Status</th>

<th>Activate</th>

</tr>

</thead>

<tbody>

{% for i in data %}

<tr style="color: white">

<td>{{forloop.counter}}</td>

<td>{{i.name}}</td>

<td>{{i.loginid}}</td>

<td>{{i.mobile}}</td>

<td>{{i.email}}</td>

<td>{{i.locality}}</td>

<td>{{i.status}}</td>

{% if i.status == 'waiting' %}

<td><a class="btn-link" href="/ActivaUsers/?uid={{ i.id }}"

style="color:DARKBLUE">Activate</a></td>

{% else %}

<td> Activated</td>

{% endif %}

</tr>

{% endfor %}

</tbody>

</table>

</div>

</section>

{%endblock%}

**Index.html:**

{%extends 'base.html'%}

{% load static %}

{%block contents%}

<h3 style="color:white"> Role of machine learning in fakenews</h3>

{%endblock%}