Sprint-2

Date	18 November 2022
Team ID	PNT2022TMID37323
Project Name	Predicting the energy output of wind turbine based on weather condition

predict.html

```
<html>
        <meta charset="UTF-8" />
        <meta name="viewport" content="width=device-width, initial-scale=1.0" />
        <meta http-equiv="X-UA-Compatible" content="ie=edge" />
        <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.7.2/css/all.css"</pre>
            integrity="sha384-fnmOCqbTlWIlj8LyTjo7mOUStjsKC4pOpQbqyi7RrhN7udi9RwhKkMHpvLbHG9Sr" crossorigin="anonymous" />
        <link href="https://fonts.googleapis.com/css?family=Dosis" rel="stylesheet" />
        <link rel="stylesheet" href="{{url_for('static',filename='css/main.css')}}"/>
        <link rel="stylesheet" href="{{url_for('static',filename='css/media.css')}}"/>
        <link rel="stylesheet" href="{{url_for('static',filename='css/items grid.css')}}"/>
    <title>Wind Energy Prediction</title>
    <style>
#page {
  max-width: 80%;
  margin: auto;
body {
    background-image: url(https://images2.alphacoders.com/753/753985.jpg);
    width: 100%;
    height: 100%;
    background-repeat: no-repeat;
    background-attachment: fixed;
```

```
overflow: hidden;
table {
        width: 100%;
        border-collapse: collapse;
.card {
            margin-right: auto;
            margin-left: 15%;
            width: 300px;
            box-shadow: 0 15px 25px rgba(129, 124, 124, 0.2);
            border-radius: 5px;
            backdrop-filter: blur(14px);
            background-color: rgb(180, 180, 180);
            padding: 15px;
            text-align: center;
        .head {
            top:0px;
            margin:0px;
            left: 0px;
            right: 0px;
            position: fixed;
            background: #aeb90f;
            color: white;
            overflow: hidden;
            padding-bottom: 30px;
            font-size: 2.25vw;
            width: 100%;
            padding-left:0px;
            text-align: center;
            padding-top:20px;
         .second{
```

```
top:80px;
   bottom:0px;
   margin:0px;
   left: 0px;
   right: 0px;
   position: fixed;
   padding: 0px;
   width: 100%;
   font-family:Georgia, serif;
   color:black;
   font-size:20px;
.inside{
   top:80px;
   bottom:0px;
   margin:0px;
   left: 51%;
   right: 0%;
   position: fixed;
   padding-left: 40px;
   padding-top:8%;
   padding-right:40px;
   font-family:Georgia, serif;
   color:#96f400;
   font-size:20px;
   text-align:justify;
.myButton{
     border: none;
     text-align: center;
     cursor: pointer;
     text-transform: uppercase;
     outline: none;
     overflow: hidden:
```

```
color: #fff;
              font-weight: 700;
              font-size: 12px;
              background-color: #183a1d;
              padding: 10px 15px;
             margin: 0 auto;
              box-shadow: 0 5px 15px rgba(0,0,0,0.20);
             margin-left:17%;
   input {
   width:50%;
   margin-bottom: 10px;
   background: #e1eedd;
   border: none;
   outline: none;
   padding: 10px;
   font-size: 13px;
   color: #6c493a;
   text-shadow: white;
   border: #6c493a;
   border-radius: 4px;
   box-shadow: white;
::placeholder {
 color: black;
 opacity: 1;
.left{
       top:80px;
           bottom:0px;
           margin:0px;
           left: 0%;
           right: 45.5%;
           position: fixed;
           padding-left: 10%;
           nadding-ton:5%:
```

```
padding-right:40px;
            font-family:bold,Georgia, serif;
            color:rgb(238, 255, 0);;
            font-size:25px;
    select {
   width:50%;
    margin-bottom: 10px;
    background: white;
    border: none;
    outline: none;
    padding: 10px;
   font-size: 13px;
   color: #183a1d;
   text-shadow: white;
   border: #6c493a;
   border-radius: 40px;
   box-shadow: white;
input:focus { box-shadow: inset 0 -5px 45px rgba(100,100,00.4), 0 1px 1px rgba(255,255,255,0.2); }
         table, th, td {
  border: 1px solid rgb(86, 72, 128);
  border-collapse: collapse;
  color: #3f00ff;
@media screen and (max-width: 500px) {
  .left,
  .second,
   third {
```

```
width: 70%;
   </style>
   </head>
   <body>
       <header id="head">
       <div class="head">Predicting The Energy Output Of Wind Turbine Based On Weather Condition</div>
       </header>
       <div class="second">
       <div class="left">
           Give your city name to know the weather
CONDITIONS
       <div style="margin-left:10%">
       <form action="{{ url for('windapi')}}"method="post" >
              <select name="city" required >
                 <option value="" selected>select City</option>
                 <option value ="Ariyalur" > Ariyalur
                                                        </option>
                 <option value ="Andimadam" >
                                             Andimadam </option>
                                             Coimbatore </option>
                 <option value ="Coimbatore" >
                 <option value ="Chengalpattu"</pre>
                                                 Chengalpattu
                                                                </option>
                 <option value ="Cuddalore" >
                                             Cuddalore </option>
                 <option value ="Chennai" >
                                             Chennai </option>
                 <option value ="Dindigul" >
                                              Dindigul </option>
                                             Dharmapuri </option>
                 <option value ="Dharmapuri" >
                 <option value ="Erode" >
                                          Erode </option>
                 <option value ="Karur" >
                                          Karur
                                                 </option>
                 <ontion value ="Kancheenuram" >
                                                 Kancheenuram </ontion>
```

```
<option value ="Krishnagiri"</pre>
                                              Krishnagiri </option>
        <option value ="Kallakurichi"</pre>
                                              Kallakurichi
                                                               </option>
        <option value ="Madurai"</pre>
                                         Madurai </option>
        <option value ="Mayiladuthurai" >
                                              Mayiladuthurai </option>
        <option value ="Nagapattinam"</pre>
                                              Nagapattinam
                                                               </option>
        <option value ="Kanyakumari"</pre>
                                              Kanyakumari </option>
        <option value ="Namakkal" >
                                          Namakkal
                                                      </option>
        <option value ="Perambalur" >
                                          Perambalur </option>
        <option value ="Pudukottai" >
                                          Pudukottai 
        <option value ="Ramanathapuram" >
                                              Ramanathapuram </option>
        <option value ="Ranipet"</pre>
                                          Ranipet </option>
                                     Salem </option>
        <option value ="Salem" >
        <option value ="Sivagangai" >
                                         Sivagangai </option>
                                          Tenkasi </option>
        <option value ="Tenkasi"</pre>
        <option value ="Thanjavur"</pre>
                                         Thanjavur </option>
        <option value ="Theni" >
                                              </option>
                                     Theni
                                              Thiruvallur </option>
        <option value ="Thiruvallur"</pre>
        <option value ="Thiruvarur" >
                                          Thiruvarur </option>
        <option value ="Tuticorin" >
                                          Tuticorin
                                                      </option>
        <option value ="Trichirapalli"</pre>
                                              Trichirapalli
                                                               </option>
        <option value ="Thirunelveli"</pre>
                                              Thirunelveli
                                                               </option>
        <option value ="Tirupathur" >
                                         Tirupathur </option>
        <option value ="Tiruppur"</pre>
                                          Tiruppur
                                                       </option>
        <option value ="Tiruvannamalai" >
                                              Tiruvannamalai </option>
                                              The Nilgiris
        <option value ="The Nilgiris"</pre>
                                                               </option>
        <option value ="Vellore"</pre>
                                          Vellore </option>
        <option value ="Viluppuram" >
                                          Viluppuram </option>
        <option value ="Virudhunagar"</pre>
                                              Virudhunagar
                                                               </option>
    </select><br><br>
   <div style="margin-left:-15%"><button type="submit" class="myButton" >Check the Weather Conditions</button></div>
</form>
</div>
```


<div class="card">

```
The weather conditions of the city are
     Temperature{{temp}}
     Humidity{{humid}}
     Pressure{{pressure}}
     Wind Speed{{speed}}
     </div>
</div>
  <div class="inside">
  <div style="font-size:23px;font-weight:bold;">Predict the Wind Energy!!</div>
  <br><br><br>></pr>
  <form action="{{ url_for('y_predict')}}"method="post">
     <input type="text" name="theo" placeholder="Theoretical Power in KWh" required="required" />
     <input type="text" name="wind" placeholder="Wind Speed in m/s" required="required" /><br>
     <button type="submit" class="myButton" >Predict</button>
  </form>
  <br>
  <br>
  {{ prediction_text }}
</div>
</div>
```



Predicting The Energy Output Of Wind Turbine Based On Weather Condition GIVE YOUR CITY NAME TO KNOW THE WEATHER CONDITIONS **Predict the Wind Energy!!** select City Theoretical Power in KWh Wind Speed in m/s CHECK THE WEATHER CONDITIONS PREDICT The weather conditions of the city are { prediction text }} Temperature {{temp}} Humidity {{humid}} Pressure {{pressure}} Wind Speed {{speed}}