Project Development Phase

Sprint 1

Team ID	PNT2022TMID03363
Project Name	Predicting the energy output of wind turbine based on weather condition

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>Wind Energy Prediction</title>
<link rel="stylesheet" href="{{ url_for('static', filename='css/style.css') }}">
<!----we had linked our css file---->
</head>
<body>
<div class="full-page">
<div class="navbar">
<div>
<a href="{{url_for('home')}}">Wind Energy<br>
<label>  Renewable Energy is Our Fate!</label>
</a>
</div>
```

```
<nav>
<ul id='MenuItems'>
<li>
<a href="{{url_for('predict')}}">Predict</a>
</li>
<li><a href="{{url_for('about')}}">About</a></li>
<li><a href={{url_for('services')}}>Services</a></li>
<li><a href={{url_for('contact')}}>Contact</a></li>
</ul>
</nav>
</div>
</div>
</body>
</html>
```

About.html

```
<html>
<head>
<title>Wind Energy Prediction</title>
<link rel="stylesheet" href="{{ url_for('static', filename='css/style.css') }}">
<style>
        .header {
            top:0px;
            margin:0px;
            left: 0px;
```

```
    right: 0px;
    position: fixed;
    background: #6c493a;
    color: white;
    overflow: hidden;
    padding-bottom: 30px;
    font-size: 2.25vw;
    width: 100%;
    padding-left:10px;
    text-align: right;
    padding-top:20px;
}
.second{
    top:80px;
    bottom:0px;
    margin:0px;
    left: 0px;
    right: 0px;
    position: fixed;
    padding: 0px;
    width: 100%;
    background-image:url({{url_for('static',filename='/images/m123.gif')}});
    background-repeat:no-repeat;
    background-size: contain;
}
```

```
.inside{
    top:80px;
    bottom:0px;
    margin:0px;
    left: 45%;
    right: 0%;
    position: fixed;
    padding-left: 40px;
    padding-top:8%;
    padding-right:40px;
    background-color:#F2D19A;
    font-family:Georgia, serif;
    color:black;
    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;
```

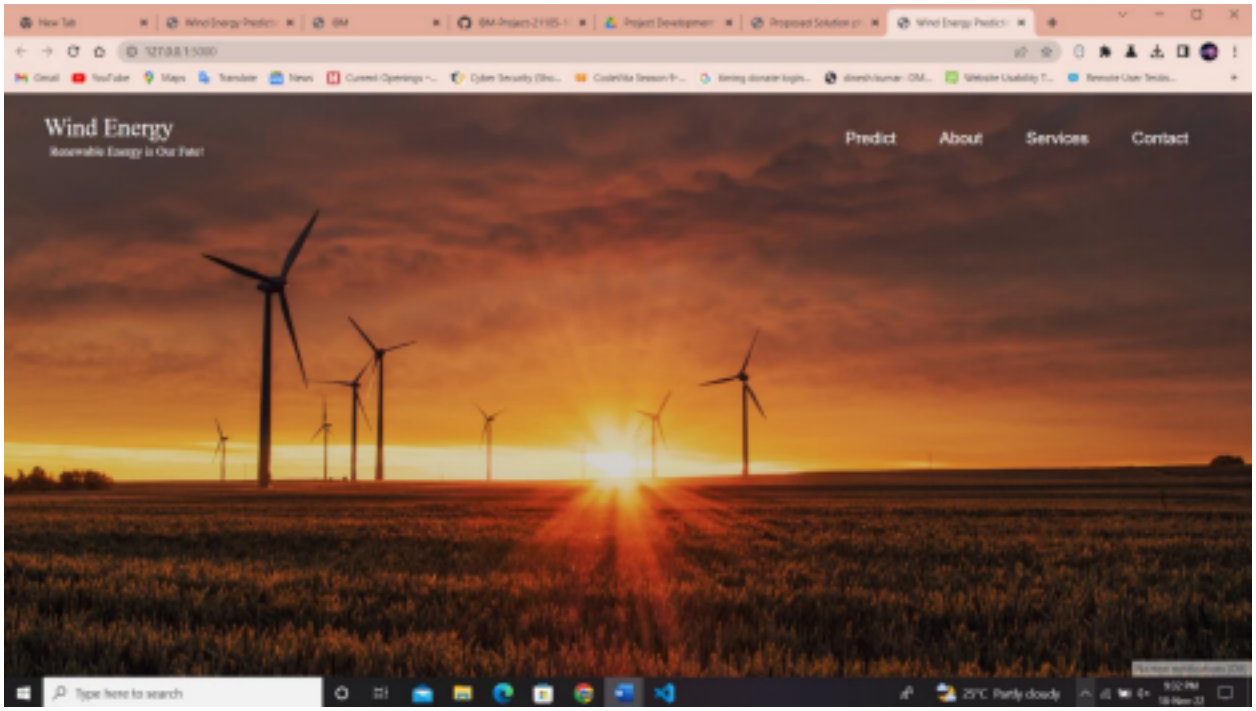
```
            font-size: 12px;
            background-color: #6c493a;
            padding: 10px 15px;
            margin: 0 auto;
            box-shadow: 0 5px 15px rgba(0,0,0,0.20);
        }
</style>
</head>
<body>
<div class="header">Predicting The Energy Output Of Wind Turbine Based On Weather Condition</div>
<a href="{{url_for('home')}}">Wind Energy<br><label>  Renewable Energy is Our Fate!</label></a>
<div class="second">
<div class="inside">Renewable energy, such as wind and solar energy, plays an increasing role in the supply of energy worldwide. This trend will continue because global energy demand is increasing, and the use of nuclear power and traditional sources of energy such as coal and oil is unsafe and leads to a large amount of CO2 emission. Wind energy is a key player in the field of renewable energy. In Europe, the capacity of wind energy production has doubled from 2009 to 2010. <br><br>
However, levels of production of wind energy are hard to predict as they rely on potentially unstable weather conditions present at the wind farm. In particular, wind speed is crucial for energy production based on wind, and it may vary drastically over time. Energy suppliers are interested in accurate predictions, as they can avoid overproduction by coordinating the collaborative production of traditional power plants and weather-dependent energy sources. The energy can be predicted based on the power curve and the windspeed.
<br>
<br>
<br>
```

<button type="button" class="myButton" >Want to predict the energy??</button>

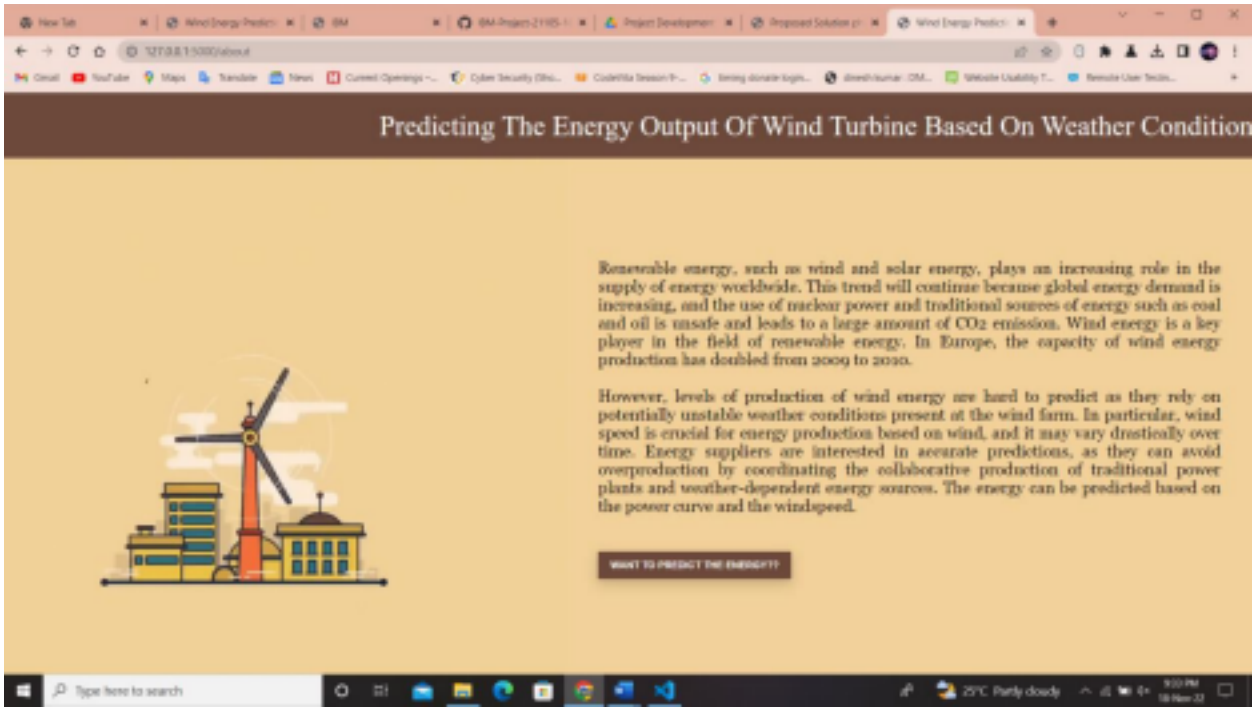
</body>

</html>

Home Page:



About Page:


Predicting The Energy Output Of Wind Turbine Based On Weather Condition
Renewable energy, such as wind and solar energy, plays an increasing role in the supply of energy worldwide. This trend will continue because global energy demand is increasing, and the use of nuclear power and traditional sources of energy such as coal and oil is unsafe and leads to a large amount of CO_2 emission. Wind energy is a key player in the field of renewable energy. In Europe, the capacity of wind energy production has doubled from 2009 to 2020.
However, levels of production of wind energy are hard to predict as they rely on potentially unstable weather conditions present at the wind farm. In particular, wind speed is crucial for energy production based on wind, and it may vary drastically over time. Energy suppliers are interested in accurate predictions, as they can avoid overproduction by coordinating the collaborative production of traditional power plants and weather-dependent energy sources. The energy can be predicted based on the power curve and the windspeed.
WANT TO PREDICT THE ENERGY??
Type here to search
25°C Partly cloudy