

# DEVELOPING A FLIGHT DELAY PREDICTION MODEL USING MACHINE LEARNING

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**home.php :**

```
<?php require_once "controllerUserData.php"; ?>

<?php

$email = $_SESSION['email']; $password =
$_SESSION['password']; if($email != false &&
$password != false){

    $sql = "SELECT * FROM usertable WHERE email = '$email'";

    $run_sql = mysqli_query($con, $sql); if($run_sql){

        $fetch_info = mysqli_fetch_assoc($run_sql);

        $status = $fetch_info['status']; $code
        = $fetch_info['code']; if($status ==
        "verified"){

            if($code != 0)
            {header('Location: reset-code.php');

                }

            }else{

                header('Location: user-otp.php');

            }

        }

    }

}else{

header('Location: login-user.php')
```

```
}

?>

<!DOCTYPE html>

<html>

<head>

    <meta charset="UTF-8">

    <title><?php echo $fetch_info['name'] ?> | FLIGHT DELAY</title>


    <style> label{ font-
size:120%;
color:#ffffff;
}

body{ background-image: url('wallpaper (13).jpg');
background-color: black; background-repeat: no-
repeat; background-attachment: fixed; background-
size: 100% 100%;
}

h1{ text-align: center;
color: white;
font-family:'Trebuchet MS', 'Lucida Sans Unicode', 'Lucida Grande', 'Lucida Sans', Arial,
sans-serif
}

.cols{
width: 470px;
height: 25px;
border:none;
font-size:large;
background-color:transparent;
margin:5px; box-sizing: border-box;
```

```
}
```

```
table{ align-items: center;
```

```
    margin-top:45px;
```

```
}
```

```
input{
```

```
    color: rgb(255, 255, 255);
```

```
}
```

```
th{
```

```
    font-size:1.39em; text-align:center;
```

```
    color:#fdfdfd;
```

```
}
```

```
input[type=submit] {
```

```
    background-color: #04AA6D;
```

```
    color:#fdfdfd; padding: 12px
```

```
    20px; margin-left: 350px;
```

```
    border: none; border-
```

```
    radius: 4px; cursor: pointer;
```

```
    float: left;
```

```
    font-family: cursive;
```

```
}
```

```
input[type=text], select,
```

```
textarea,input[type=time],input[type=calendar],input[type=number], input[type=month] { width:
```

```
    100%; padding: 12px;
```

```
    border: 1px solid #fdfdfd; border-
```

```
    radius: 4px; padding: 5px;
```

```
}
```

```
#region,#country{ width: 100%;  
padding: 5px; border: 1px solid  
#fdfdfd; border-radius: 4px; font-  
family: cursive; font-size:medium;  
background-color:transparent;  
margin:5px; box-sizing:border-box;  
color:#fdfdfd;
```

```
}
```

```
.col-25 { float: left;  
margin-left: 100px;  
width: 30%; margin-top:  
13px; font-  
family:cursive;
```

```
}
```

```
.col-75 {  
margin-left: 100px; width: 30%;  
float: left;  
margin-top: 13px; font-family:cursive; color:  
#fdfdfd;
```

```
}
```

```
.button:after {  
content: "";  
display: table;  
clear: both;
```

```
} ul {
```

```
list-style-type: none;
margin: 0; padding: 0;
overflow: hidden;
} li {
float: left;

} li a {
display: block;
color:#fdfdfd; text-align:
center; padding: 14px 16px;
text-decoration: none; font-
family: cursive;
}
li a:hover {
background-color:#000000; width: auto;
}
</style>
```

```
</head>
```

```
<body>
```

```
<ul>
```

```
<li style="color:#fdfdfd;font-family:cursive;font-weight: bolder;font-size: xx- large;">Flight Delay
Prediction</li>
```

```
<li style="float:right"><a href="logout-user.php" >LogOut</a></li>
```

```
<li style="float:right"><a href="about.php">About</a></li>
```

```
</ul>
```

```

<form action="result.php" method="POST" name="register" autocomplete="">
<table>

  <tr>

    <td class="col-25" > <label >Enter Flight Number</label></td>

    <td class="col-75"> <input class="cols" type="text" placeholder="Enter Flight Number" required
name="FlightNumber" ></td>

  </tr>

  <tr>

    <td class="col-25" ><label>Month</label></td>

    <td class="col-75"><input class="cols" type="month" placeholder="Month" required
name="Month"></td>

  </tr>

  <tr>

    <td class="col-25"><label>Origin</label></td>

    <td class="col-75">

      <select id="country" required>

        <option value="region" selected style="color: black;">India</option>

        <option value="region" style="color: black;">Mumbai</option>

        <option value="region" style="color: black;">Kanada</option>

        <option value="region" style="color: black;">England</option>

        <option value="region" style="color: black;">alt</option>

      </select>

    </td>

  </tr>

  <tr>

    <td class="col-25"><label>Destination</label></td>

    <td class="col-75">

      <select id="region" required>

```

```

        <option value="region" selected style="color: black;">India</option>
        <option value="region" style="color: black;">Mumbai</option>
        <option value="region" style="color: black;">Kanada</option>
        <option value="region" style="color: black;">England</option>
        <option value="region" style="color: black;">alt</option>
    </select>
</td>
</tr>
<td class="col-25"><label>Scheduled Departure Time</label></td>
<td class="col-75"> <input class="cols" type="time" placeholder=" Scheduled
Departure Time" required name="Departuretime" ><br></td>
</tr>
<tr>
<td class="col-25"><label>Scheduled Arrival Time</label></td>
<td class="col-75"> <input class="cols" type="time" placeholder="Scheduled Arrival
Time"required name="Arrivaltime" ><br></td>
</tr>
<tr>
<td class="col-25"><label>Actual Departure Time</label></td>
<td class="col-75"><input class="cols" type="time" placeholder="Actual Departure Time"
required name="Actualdeparturetime"> </td>
</tr>
</table>
<br><input class="button" type="submit" name="submit" ><br>
</form>
</body>
</html>

```

### Result.php:

```
<?php require_once "controllerUserData.php"; ?>
```

```
<?php
$email = $_SESSION['email']; $password =
$_SESSION['password']; if($email != false &&
$password != false){
    $sql = "SELECT * FROM usertable WHERE email = '$email'";
    $run_Sql = mysqli_query($con, $sql); if($run_Sql){
        $fetch_info = mysqli_fetch_assoc($run_Sql);
        $status = $fetch_info['status']; $code
        = $fetch_info['code']; if($status ==
        "verified"){ if($code != 0){
            header('Location: reset-code.php');

        }
        }else{
            header('Location: user-otp.php');

        }
    }
}

}else{ header('Location: login-user.php');

}

?>

<!DOCTYPE html>

<html>

<head>

    <meta charset="UTF-8">

    <title><?php echo $fetch_info['name'] ?> | Home</title>
```



```

<style> label{ font-
size:120%;
color:#ffffff;
}

body{ background-image: url('wallpaper (13).jpg');
background-color: black; background-repeat: no-
repeat; background-attachment: fixed; background-
size: 100% 100%;
}

h1{ text-align: center;
color: white;
font-family:'Trebuchet MS', 'Lucida Sans Unicode', 'Lucida Grande', 'Lucida Sans', Arial,
sans-serif
}

.cols{
width: 470px;
height: 25px;
border:none; font-
size:large;
background-color:transparent;
margin:5px; box-sizing: border-box;
}

.cont{ font-size:30px; font-
family:cursive;
color:#fdfdfd; margin-
top:100px; margin-
left:30px;
}

```

```
.cont1{ font-size:30px; font-  
    family:cursive;  
    color:#fdfdfd; margin-  
    top:100px; margin-  
    left:30px;  
}
```

```
input{ color: rgb(255, 255, 255);
```

```
}
```

```
th{  
    font-size:1.39em; text-align:center;  
    color:#fdfdfd;  
}
```

```
input[type=submit] { background-color:  
    #04AA6D;  
    color:#fdfdfd; padding:  
    12px 20px; margin-left:  
    350px; border: none;  
    border-radius: 4px;  
    cursor: pointer;  
  
    float: left;  
    font-family: cursive;  
}
```

```
input[type=text], select,  
textarea,input[type=time],input[type=calendar],input[type=number], input[type=month] { width:  
    100%; padding: 12px; border: 1px solid #fdfdfd; border-radius: 4px; padding: 5px;  
}
```

```
#region,#country{ width: 100%;  
    padding: 5px; border: 1px solid
```

```
#fdfdfd; border-radius: 4px; font-  
family: cursive; font-size:medium;  
background-color:transparent;  
margin:5px; box-sizing:border-box;  
color:#fdfdfd;  
  
}
```

```
.col-25 { float: left;  
margin-left: 100px;  
width: 30%; margin-top:  
13px; font-  
family:cursive; }
```

```
.col-75 {  
margin-left: 100px; width: 30%;  
float: left;  
margin-top: 13px; font-  
family:cursive; color: #fdfdfd;  
}
```

```
.button:after {  
content: "";  
display: table;  
clear: both;
```

```
} ul {  
list-style-type: none;  
margin:center; padding:  
0; overflow: hidden;  
} li {  
float: left;
```

```

    } li a {
        display: block;
color:#fdfdfd;    text-align:
center; padding: 14px 16px;
text-decoration: none; font-
family: cursive;
    }
    li a: hover {
        background-color:#000000; width: auto;
    }
</style>

</head>
<body>
<ul>

    <li style="color:#fdfdfd;font-family:cursive;font-weight: bolder;font-size: xx- large;">FLIGHT DELAY
DURATION</li>

    <li style="float:right"><a href="logout-user.php" >LogOut</a></li>
</ul>
<div class="cont">
    Actual Arrival Time :
</div>
<div class="cont1">
    Delay Time Duration :
</div>
</form>
</body>
</html>

```

## Logout-user.php:

```
<?php
session_start(); session_unset();
session_destroy(); header('location:
login-user.php');
?>
```

## About.php:

```
<?php require_once "controllerUserData.php"; ?>
<?php
$email = $_SESSION['email']; $password =
$_SESSION['password']; if($email != false &&
$password != false){
    $sql = "SELECT * FROM usertable WHERE email = '$email'";
    $run_sql = mysqli_query($con, $sql); if($run_sql){
        $fetch_info = mysqli_fetch_assoc($run_sql);
        $status = $fetch_info['status']; $code
        = $fetch_info['code']; if($status ==
        "verified"){ if($code != 0){
            header('Location: reset-code.php');

        }
        }else{
            header('Location: user-otp.php');

        }
    }
}

}else{ header('Location: login-user.php');

}
}
```

?>

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title><?php echo \$fetch\_info['name'] ?> | Home</title> <style> label{ font-size:120%;

color:#ffffff;

}

body{ background-image: url('wallpaper (13).jpg');

background-color: black; background-repeat: no-

repeat; background-attachment: fixed; background-

size: 100% 100%;

}

h1{ text-align: center;

color: white;

font-family:'Trebuchet MS', 'Lucida Sans Unicode', 'Lucida Grande', 'Lucida Sans', Arial,  
sans-serif

}

.cols{

width: 470px;

height: 25px;

border:none;

font-size:large;

background-color:transparent; margin:5px;

box-sizing: border-box;

}

.cont{ font-size:30px; font-

family:cursive;

```
color:#fdfdfd; margin-  
top:25px; margin-  
left:20px;  
}
```

```
.cont1{ font-size:20px; font-  
family:cursive;  
color:#fdfdfd; margin-  
top:30px; margin-  
left:20px; margin-  
right:700px;  
  
}
```

```
input{ color: rgb(255, 255, 255);
```

```
}
```

```
th{  
font-size:1.39em; text-align:center;  
color:#fdfdfd;  
}
```

```
input[type=submit] { background-color:
```

```
#04AA6D;
```

```
color:#fdfdfd; padding: 12px
```

```
20px; margin-left: 350px;
```

```
border: none; border-
```

```
radius: 4px; cursor: pointer;
```

```
float: left;
```

```
font-family: cursive;
```

```
}
```

```

input[type=text], select,
textarea,input[type=time],input[type=calendar],input[type=number],  input[type=month]  {  width:
    100%; padding: 12px; border: 1px solid #fdfdfd; border-radius: 4px; padding: 5px;
}

#region,#country{ width: 100%;
    padding: 5px; border: 1px solid
    #fdfdfd; border-radius: 4px; font-
    family: cursive; font-size:medium;
    background-color:transparent;
    margin:5px; box-sizing:border-box;
    color:#fdfdfd;

}

.col-25 { float: left;
    margin-left:    100px;
    width: 30%; margin-top:
    13px;          font-
    family:cursive;
}

.col-75 {
    margin-left: 100px; width: 30%;

    float: left;
    margin-top: 13px; font-
    family:cursive; color: #fdfdfd;
}

.button:after      {
    content:        "";
    display:        table;
    clear: both;

```



```

} ul {
    list-style-type: none;
    margin:center; padding: 0;
    overflow: hidden;
} li {
    float: left;

} li a {
    display:          block;
color:#fdfdfd;      text-align:
center; padding: 14px 16px;
text-decoration: none; font-
family: cursive;
}
li a:hover {
    background-color:#000000; width: auto;
}

</style>

</head>
<body>
<ul>

    <li style="color:#fdfdfd;font-family:cursive;font-weight: bolder;font-size: xx- large;">FLIGHT DELAY
    DURATION</li>

    <li style="float:right"><a href="logout-user.php" >LogOut</a></li>

</ul>

<div class="cont">

    Developing A Flight Delay Prediction Model Using Machine Learning

</div>

```

```
<div class="cont1" >
```

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```