

# Project Development Phase

## Sprint-04

Date	18 November 2022
Team ID	PNT2022TMID15719
Project Name	Machine Learning-Based Predictive Analytics for Aircraft Engine

### Engine Prediction:

```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
  <title></title>
</head>
<script
src="http://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js"></s
cript>
<body ng-app="Myapp" ng-controller="ctlemp as h">
  <style>
    body {
      background-image: url('./Image\ 01.jpg');
      background-attachment: fixed;
      background-size: cover;
    }
  </style>
<div ng-switch on="h.page">
  <div ng-switch-when="EmpOffice" ng-controller="Myc as c">
    <form>
      <hr>
      <table cellpadding="3" cellspacing="0">
        <!--<tr>
          <td></td>
          <td></td>
          <td></td>
          <td></td>
          <td colspan="3">sample</td>
        </tr-->
        <legend ><b>Aircraft Engine Prediction</b></legend>
        <tr>
          <td>
```

```

        Engine Name:
    </td>
    <td>
        <input type="text" ng-model="c.employee.UserName" />
    </td>
</tr>
<tr>
    <td>
        Power type:
    </td>
    <td>
        <input type="radio" name="Power" value="HP" ng-
model="c.employee.Gender"/>HP<input type="radio" name="Power" value="LP" ng-
model="c.employee.Gender"/>LP
    </td>
</tr>
<tr>
    <td>
        Engine Model:
    </td>
    <td>
        <select ng-options="dep.Id as dep.Name for dep in c.loaddep"
ng-model="c.employee.Admin"/>
    </td>
</tr>
<tr>
    <td>
        Power:
    </td>
    <td>
        <select ng-options="city.Id as city.Name for city in
c.loadcity" ng-model="c.employee.City"/>
    </td>
</tr>
<tr>
    <td>
        Reporting to:
    </td>
    <td>
        <input type="text" ng-model="c.employee.Email"/>
    </td>
</tr>
<tr>
    <td>
        Engine Description:
    </td>
    <td>

```

```

                <textarea rows="4" cols="10" ng-
model="c.employee.Address"></textarea>
            </td>
        </tr>
        <tr>
            <td>
                Engine Failure Causes:
            </td>
            <td>
                <input type="checkbox" ng-model="c.employee.Travelling"
value={{c.loadinteraset[0].Id}}>{{c.loadinteraset[0].Name}}</input>
                <input type="checkbox" ng-model="c.employee.Movies"
value={{c.loadinteraset[1].Id}}>{{c.loadinteraset[1].Name}}</input>
                <input type="checkbox" ng-model="c.employee.Music"
value={{c.loadinteraset[2].Id}}>{{c.loadinteraset[2].Name}}</input>
            </td>
        </tr>
        <tr>
            <td>
                Verification:
            </td>
            <td>
                <input type="checkbox" ng-
model="c.employee.Accepting"></input>
            </td>
        </tr>
        <tr>
            <td colspan="2" align="center">
                <button ng-
click="c.addemp()">Predict</button>
                <button ng-click="c.filteremp()">Filter</button>
            </td>
        </tr>
    </table>
</form>
<hr />
<span ng-show="c.employee.filter">
    <br />
    <br />
    Filter: <input type="text" ng-model="c.employee.filterby" />
    <br />
    <br />
</span>
<table cellpadding="3" cellspacing="0" border="1">
    <tr>
        <th>S. No</th>

```

```

        <th>Engine Name</th>
        <th>Power type</th>
        <th>Engine Model</th>
        <th>Power</th>
        <th>Reporting to</th>
        <th>Engine Description</th>
        <th>Engine Failure Details (Air Blockage, Fuel Exhaustion, Carburettor
ice)</th>
        <th>Verification</th>
    </tr>
    <tr ng-repeat="e in c.employlist|filter:c.employee.filterby">
        <td>{{$index+1}}</td>
        <td>{{e.UserName}}</td>
        <td>{{e.Gender}}</td>
        <td>{{e.Admin}}</td>
        <td>{{e.City}}</td>
        <td>{{e.Email}}</td>
        <td>{{e.Address}}</td>
        <td>{{e.Travelling}},{{e.Movies}},{{e.Music}}</td>
        <td>{{e.Accepting}}</td>
        <td>
            <button ng-click="c.Edit($index)">Edit</button>
        </td>
        <td>
            <button ng-click="c.rmemp($index)">Delete</button>
        </td>
    </tr>
</table>
<hr />
</div>
<div ng-switch-when="EmpPro" ng-controller="Myc as c">
Employee Personal Details
</div>
</div>
<script>
function empCities() {
    this.cities = [{ "Id": 1, "Name": "Above 50", "State": "Tamilnadu"
},
    { "Id": 2, "Name": "Above 100", "State": "Delhi" },
    { "Id": 3, "Name": "Above 150", "State": "Maharashtra" },
    { "Id": 4, "Name": "Above 200", "State": "Maharashtra" },
    { "Id": 5, "Name": "Above 250", "State": "Karnataka" }]
}
function empDepartment() {

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    this.departments = [{ "Id": 1, "Name": "A-12345", "Manager":
"Model" },
    {"Id":2,"Name":"B-12345","Manager":"Model"},
    {"Id":3,"Name":"C-12345","Manager":"Model"},
    {"Id":4,"Name":"D-12345","Manager":"Model"}]
}
function empInterest() {

    this.interests = [{ "Id": 1, "Name": "Air Blockage" },
        { "Id": 2, "Name": "Fuel Exhaustion" },
        { "Id": 3, "Name": "Carburettor ice" } ]];
}
function empdetails() {
    var self = this;
    self.UserName = '';
    self.Gender = '';
    self.City = '';
    self.Admin = '';
    self.Email = '';
    self.Address = '';
    self.CreatePassword = '';
    self.Travelling = true;
    self.Movies = false;
    self.Music = true;
    self.filter = false;
    self.Accepting = '';
    self.filterby = '';
}
function empmgm() {
    var self = this;
    self.index;
    self.employee = new empdetails();
    self.emplist = [];
    self.loaddep = new empDepartment().departments;
    self.loadcity = new empCities().cities;
    self.loadinterestset = new empInterest().interests;
    self.addemp = function (){
        self.emplist.push(self.employee);
        self.employee = new empdetails();
        console.log('Emp Added');
    };
    self.rmemp = function (i){
        self.emplist.splice(i,1);
        console.log('Last Emp Delete');
    };
    self.filteremp = function () {
        self.employee.filter = !self.employee.filter;
    };
}

```

```

    };
    self.Edit = function (i) {
        self.employee= self.emplist[i]
        self.employee.filterby = self.emplist[i].Name;
        self.index = i;
    };
    self.Updatemp = function () {
        self.emplist[self.index] = self.employee
        self.employee.filterby = "";
        self.employee = new empdetails();
    }

}

var app = angular.module("Myapp", []);
app.controller("ctlemp", [function () {
    this.page = "EmpOffice";

}]);
app.controller("Myc", [empmgm]);
</script>
</body>
</html>

```

## WEB PAGE OUTPUT:

**Aircraft Engine Prediction**

Engine Name:

Power type: ☐ HP ☐ LP

Engine Model:

Power:

Reporting to:

Engine Description:

Engine Failure Causes: ☒ Air Blockage ☐ Fuel Exhaustion ☒ Carburettor ice

Verification: ☐

S. No	Engine Name	Power type	Engine Model	Power	Reporting to	Engine Description	Engine Failure Details (Air Blockage, Fuel Exhaustion, Carburettor ice)	Verification
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