INTRODUCTION

Human resource management (HRM or HR) is the strategic approach to the effective and efficient management of people in a company or organization such that they help their business gain a competitive advantage.

It is designed to maximize employee performance in service of an employer's strategic objectives.

The field of human resources analysis, which can be understood as an approach to human recourses management focused on data and analytical thinking.

Human resources analysis an optimal use of human resources to ensure that the human resources of an organization remain an asset and not a liability.

The project analyzes the data of the employees working in the organization.

LITERATURE SURVEY

S.NO	Authors	Title	Publishing	Techniques
1	AMAN KHARWAL	Human Resource Analysis with Python	Agronomy for Sustainable Development volu me (2015)	The field of human resources analysis, which can be understood as an approach to human resources management focused on data and analytical thinking, is quickly becoming an indispensable part of organizational configurations.
2	JOHN-PAUL HATALA	Social Network Analysis in Human Resource Developmen t: A New Methodology	Louisiana State University	Through an exhaustive review of the literature, this article looks at the applicability of social network analysis (SNA) in the field of human resource development
3	John W. Boudreau	Utility Analysis for Decisions in Human Resource Management	Cornell University	This chapter will discuss utility analysis (VA), which attempts to answer such questions by focusing on decisions about human resources. Utility analysis refers to the process that describes, predicts and/or explains what determines the usefulness or desirability of decision options, and examines how that information affects decisions

METHODOLOGY

- Hardware
 - Processor -
 - 1. AMD Athlon 3000G and above
 - 2. Intel i3 4th gen and above
- Ram 4Gs
- Storage 240gs SSD / 512gb HHD
- Software
 - 1. windows 10
 - 2. visual studio code
 - 3. python
- Python
 - 1. Flask web hosting library
 - 2. Plotly plotting graphs
 - 3. Csv and pandas csv file and data

IMPLEMENTATION

```
app2.py
from flask import Flask, render_template
from flask_assets import Bundle, Environment
import pandas as pd
import json
import plotly
import plotly.express as px
import csv
app = Flask(__name__)
js = Bundle('style.css')
assets = Environment(app)
assets.register('main_js',js)
train = pd.read_csv('aug_train.csv')
missing value = 100 * train.isnull().sum()/len(train)
missing value = missing value.reset index()
missing_value.columns = ['variables', 'missing values in percentage']
def train_data():
   df = pd.read_csv("aug_train.csv")
   with open('aug_train.csv',newline='') as file:
        data = csv.DictReader(file)
        count = 0
        for row in data:
            if row['education_level'] == 'Graduate' or row['education_level'] ==
'Phd':
                if int(row['training_hours']) >= 10:
                    df.loc[count, 'hit_counter'] = 'hit'
            else:
                df.loc[count, 'hit_counter'] = 'not_hit'
            print(count)
            count+=1
        df.to_csv("aug_train.csv", index=True)
@app.route('/')
def index():
    return render_template('index.html')
@app.route('/about')
def about():
    return render_template('about.html')
@app.route('/tra1n')
def tra1n():
```

```
train_data()
    return render_template('tra1n.html',description="Data is trained")
@app.route('/chart1')
def chart1():
   fig = px.imshow(train.isnull().T)
   fig.update_layout(title='Missing values in data set')
   #fig.show()
    graphJSON = json.dumps(fig, cls=plotly.utils.PlotlyJSONEncoder)
    header="chart1"
    description = "temp1"
    return render_template('notdash2.html', graphJSON=graphJSON,
header=header, description=description)
@app.route('/chart2')
def chart2():
    plot_city = train['city'].value_counts()[0:50].reset_index()
    plot_city.columns = ['City','Count']
    px.bar(plot_city,x='City',y='Count',title='City',color='Count')
    fig =
px.bar(plot city,x='City',y='Count',template='gridon',title='City',color='Count')
    fig.update_layout(title_text='plot_city',title_y=0.5)
    graphJSON = json.dumps(fig, cls=plotly.utils.PlotlyJSONEncoder)
    header="chart2"
    description = "temp2"
    return render_template('notdash2.html', graphJSON=graphJSON,
header=header,description=description)
@app.route('/chart3')
def chart3():
    plot cdi =train['city development index'].value counts().reset index()[0:50]
    plot_cdi.columns = ['cdi','Count']
    plot cdi['cdi'] = plot cdi['cdi'].astype('str')
   fig = px.bar(plot_cdi,y="Count", x="cdi",color='Count',title='City development
index')
    graphJSON = json.dumps(fig, cls=plotly.utils.PlotlyJSONEncoder)
    header="chart3"
    description = "temp3"
    return render_template('notdash2.html', graphJSON=graphJSON,
header=header, description=description)
@app.route('/chart4')
def chart4():
    plot gender = train['enrolled university'].value counts().reset index()
```

```
plot_gender.columns = ['enrolled_university','count']
    fig =
px.pie(plot_gender, values='count', names='enrolled_university', title='enrolled_universi
ty')
    graphJSON = json.dumps(fig, cls=plotly.utils.PlotlyJSONEncoder)
    header="chart4"
    description = "temp4"
    return render template('notdash2.html', graphJSON=graphJSON,
header=header,description=description)
@app.route('/chart5')
def chart5():
    plot_gender = train['education_level'].value_counts().reset_index()
    plot_gender.columns = ['education_level','count']
   fig =
px.pie(plot_gender, values='count', names='education_level', title='education_level')
    graphJSON = json.dumps(fig, cls=plotly.utils.PlotlyJSONEncoder)
    header="chart5"
    description = "temp5"
    return render template('notdash2.html', graphJSON=graphJSON,
header=header, description=description)
@app.route('/chart6')
def chart6():
    plot_gender = train['major_discipline'].value_counts().reset_index()
    plot_gender.columns = ['major_discipline','count']
   fig = px.pie(plot_gender, values='count', names='major_discipline', title='Major
discipline')
    fig.update traces(textposition='inside', textinfo='percent+label')
    graphJSON = json.dumps(fig, cls=plotly.utils.PlotlyJSONEncoder)
    header="chart6"
    description = "temp6"
    return render_template('notdash2.html', graphJSON=graphJSON,
header=header,description=description)
@app.route('/chart7')
def chart7():
    plot_gender = train['company_size'].value_counts().reset_index()
    plot_gender.columns = ['company_size','count']
   fig = px.pie(plot_gender,values='count',names='company_size',title='company_size
is determined by no. of people employees')
    graphJSON = json.dumps(fig, cls=plotly.utils.PlotlyJSONEncoder)
    header="chart7"
    description = "temp7"
    return render template('notdash2.html', graphJSON=graphJSON,
header=header,description=description)
```

```
@app.route('/chart8')
def chart8():
   train = pd.read csv('aug train.csv')
    plot_gender = train['hit_counter'].value_counts().reset_index()
    plot_gender.columns = ['hit_counter','count']
    fig = px.pie(plot_gender,values='count',names='hit_counter',title='desired
employment graph')
    graphJSON = json.dumps(fig, cls=plotly.utils.PlotlyJSONEncoder)
    header="chart8"
    description = "temp8"
    return render_template('notdash2.html', graphJSON=graphJSON,
header=header,description=description)
if __name__ == "__main__":
    app.run(debug=True)
index.html
  <!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta content="width=device-width, initial-scale=1.0" name="viewport">
  <title>HOME</title>
  <meta content="" name="description">
  <meta content="" name="keywords">
 <!-- Google Fonts -->
  k
href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,600i,700
,700i|Roboto:300,300i,400,400i,500,500i,700,700i&display=swap" rel="stylesheet">
 <!-- Vendor CSS Files -->
  <link href = "{{ url_for('static',filename='css/style.css')}}" rel = "stylesheet">
  <link href = "{{ url for('static',filename='vendor/animate.css/animate.min.css')}}"</pre>
rel = "stylesheet">
  <link href = "{{ url_for('static',filename='vendor/aos/aos.css')}}" rel =</pre>
"stylesheet">
  <link href = "{{</pre>
url_for('static',filename='/vendor/bootstrap/css/bootstrap.min.css')}}" rel =
"stylesheet">
  <link href = "{{ url_for('static',filename='vendor/bootstrap-icons/bootstrap-</pre>
icons.css')}}" rel = "stylesheet">
```

```
<link href = "{{</pre>
url for('static',filename='vendor/boxicons/css/boxicons.min.css')}}" rel =
"stylesheet">
 <link href = "{{</pre>
url_for('static',filename='vendor/glightbox/css/glightbox.min.css')}}" rel =
"stylesheet">
 <link href = "{{ url_for('static',filename='vendor/swiper/swiper-bundle.min.css')}}"</pre>
rel = "stylesheet">
</head>
<body>
 <!-- ===== Header ====== -->
 <header id="header" class="fixed-top d-flex align-items-center header-transparent">
   <div class="container d-flex justify-content-between align-items-center">
     <div class="logo">
       <h1 class="text-light"><a href="index.html"><span>HUMAN RESOURCE
MANAGEMENT</span></a></h1>
       <!-- Uncomment below if you prefer to use an image logo -->
       <!-- <a href="index.html"><img src="assets/img/logo.png" alt="" class="img-
fluid"></a>-->
     </div>
     <nav id="navbar" class="navbar">
         <a class="active " href="/">Home</a>
         <a href="about">About</a>
         <a href="tra1n">Train</a>
         <a href="#"><span>Graphs</span> <i class="bi bi-</pre>
chevron-down"></i></a>
           <l
             <!--<li><a href="chart1">missing values</a>-->
             <a href="chart2">City Distribution</a>
             <a href="chart3">City Development Index</a>
             <a href="chart4">Enrolled Univertisty Index</a>
             <a href="chart5">Educational Level Index</a>
             <a href="chart6">Major Descipline</a>
             <a href="chart7">Company Size</a>
             <a href="chart8">Desired Employment Chart</a>
             <i class="bi bi-list mobile-nav-toggle"></i></i></or>
     </nav><!-- .navbar -->
   </div>
 </header><!-- End Header -->
```

```
<!-- ===== Hero Section ====== -->
  <section id="hero" class="d-flex justify-cntent-center align-items-center">
    <div id="heroCarousel" class="container carousel carousel-fade" data-bs-</pre>
ride="carousel" data-bs-interval="5000">
     <!-- Slide 1 -->
      <div class="carousel-item active">
        <div class="carousel-container">
          <h2 class="animate animated animate fadeInDown">WELCOME TO HUMAN-RESOUCE
MANAGEMENT</h2>
          Use the drop down option to
browse through the graphs
        </div>
     </div>
   </div>
  </body>
</html>
About.html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta content="width=device-width, initial-scale=1.0" name="viewport">
  <title>ABOUT</title>
  <meta content="" name="description">
  <meta content="" name="keywords">
  <!-- Google Fonts -->
  klink
href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,600i,700
,700i|Roboto:300,300i,400,400i,500,500i,700,700i&display=swap" rel="stylesheet">
 <!-- Vendor CSS Files -->
  <link href = "{{ url for('static',filename='css/style.css')}}" rel = "stylesheet">
  <link href = "{{ url_for('static',filename='vendor/animate.css/animate.min.css')}}"</pre>
rel = "stylesheet">
  <link href = "{{ url_for('static',filename='vendor/aos/aos.css')}}" rel =</pre>
"stylesheet">
  <link href = "{{</pre>
url_for('static',filename='/vendor/bootstrap/css/bootstrap.min.css')}}" rel =
"stylesheet">
  <link href = "{{ url_for('static',filename='vendor/bootstrap-icons/bootstrap-</pre>
icons.css')}}" rel = "stylesheet">
```

```
<link href = "{{</pre>
url for('static',filename='vendor/boxicons/css/boxicons.min.css')}}" rel =
"stylesheet">
 <link href = "{{</pre>
url_for('static',filename='vendor/glightbox/css/glightbox.min.css')}}" rel =
"stylesheet">
 <link href = "{{ url_for('static',filename='vendor/swiper/swiper-bundle.min.css')}}"</pre>
rel = "stylesheet">
</head>
<body>
 <!-- ===== Header ====== -->
 <header id="header" class="fixed-top d-flex align-items-center header-transparent">
   <div class="container d-flex justify-content-between align-items-center">
     <div class="logo">
       <h1 class="text-light"><a href="index.html"><span>ABOUT</span></a></h1>
       <!-- Uncomment below if you prefer to use an image logo -->
       <!-- <a href="index.html"><img src="assets/img/logo.png" alt="" class="img-
fluid"></a>-->
     </div>
     <nav id="navbar" class="navbar">
       <l
         <a class="active " href="/">Home</a>
         <a href="about">About</a>
         <a href="tra1n">Train</a>
         <a href="#"><span>Graphs</span> <i class="bi bi-</pre>
chevron-down"></i></a>
           culs
             <!--<li><a href="chart1">missing values</a>-->
             <a href="chart2">City Distribution</a>
             <a href="chart3">City Development Index</a>
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             <a href="chart7">Company Size</a>
             <a href="chart8">Desired Employment Chart</a>
             <i class="bi bi-list mobile-nav-toggle"></i></i></or>
     </nav><!-- .navbar -->
   </div>
 </header><!-- End Header -->
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    <div id="heroCarousel" class="container carousel carousel-fade" data-bs-</pre>
ride="carousel" data-bs-interval="5000">
     <!-- Slide 1 -->
      <div class="carousel-item active">
        <div class="carousel-container">
          <h2 class="animate animated animate fadeInDown">HUMAN-RESOUCE
MANAGEMENT</h2>
          Human resource management
(HRM or HR) is the strategic approach to the effective and efficient management of
people in a company or organization such that they help their business gain a
competitive advantage. It is designed to maximize employee performance in service of
an employer's strategic objectives.
        </div>
      </div>
   </div>
  </body>
</html>
Train.html
  <!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta content="width=device-width, initial-scale=1.0" name="viewport">
  <title>HOME</title>
  <meta content="" name="description">
  <meta content="" name="keywords">
  <!-- Google Fonts -->
  klink
href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,600i,700
,700i|Roboto:300,300i,400,400i,500,500i,700,700i&display=swap" rel="stylesheet">
  <!-- Vendor CSS Files -->
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rel = "stylesheet">
  <link href = "{{ url_for('static',filename='vendor/aos/aos.css')}}" rel =</pre>
"stylesheet">
  <link href = "{{</pre>
url for('static',filename='/vendor/bootstrap/css/bootstrap.min.css')}}" rel =
"stylesheet">
  <link href = "{{ url_for('static',filename='vendor/bootstrap-icons/bootstrap-</pre>
icons.css')}}" rel = "stylesheet">
```

```
<link href = "{{</pre>
url for('static',filename='vendor/boxicons/css/boxicons.min.css')}}" rel =
"stylesheet">
 <link href = "{{</pre>
url_for('static',filename='vendor/glightbox/css/glightbox.min.css')}}" rel =
"stylesheet">
 <link href = "{{ url_for('static',filename='vendor/swiper/swiper-bundle.min.css')}}"</pre>
rel = "stylesheet">
</head>
<body>
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 <header id="header" class="fixed-top d-flex align-items-center header-transparent">
   <div class="container d-flex justify-content-between align-items-center">
     <div class="logo">
       <h1 class="text-light"><a href="index.html"><span>HUMAN RESOURCE
MANAGEMENT</span></a></h1>
       <!-- Uncomment below if you prefer to use an image logo -->
       <!-- <a href="index.html"><img src="assets/img/logo.png" alt="" class="img-
fluid"></a>-->
     </div>
     <nav id="navbar" class="navbar">
         <a class="active " href="/">Home</a>
         <a href="about">About</a>
         <a href="tra1n">Train</a>
         <a href="#"><span>Graphs</span> <i class="bi bi-</pre>
chevron-down"></i></a>
           <l
             <!--<li><a href="chart1">missing values</a>-->
             <a href="chart2">City Distribution</a>
             <a href="chart3">City Development Index</a>
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             <a href="chart5">Educational Level Index</a>
             <a href="chart6">Major Descipline</a>
             <a href="chart7">Company Size</a>
             <a href="chart8">Desired Employment Chart</a>
             <i class="bi bi-list mobile-nav-toggle"></i></i>
     </nav><!-- .navbar -->
   </div>
 </header><!-- End Header -->
```

```
<!-- ===== Hero Section ====== -->
  <section id="hero" class="d-flex justify-cntent-center align-items-center">
    <div id="heroCarousel" class="container carousel carousel-fade" data-bs-</pre>
ride="carousel" data-bs-interval="5000">
     <!-- Slide 1 -->
      <div class="carousel-item active">
       <div class="carousel-container">
          <h2 class="animate animated animate fadeInDown">{{description}}</h2>
          Use the drop down option to
browse through the graphs
         <a class="animate animated animate fadeInUp" href="chart8">or click
here</a>
       </div>
     </div>
   </div>
  </body>
</html>
Generator.html
<!doctype html>
<html>
    <head>
       <meta charset="utf-8">
       <meta content="width=device-width, initial-scale=1.0" name="viewport">
       <title>chart</title>
       <meta content="" name="description">
       <meta content="" name="keywords">
       <!-- Google Fonts -->
       k
href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,600i,700
,700i|Roboto:300,300i,400,400i,500,500i,700,700i&display=swap" rel="stylesheet">
       <!-- Vendor CSS Files -->
       <link href = "{{ url_for('static',filename='css/style.css')}}" rel =</pre>
"stylesheet">
       <link href = "{{</pre>
url_for('static',filename='vendor/animate.css/animate.min.css')}}" rel = "stylesheet">
       <link href = "{{ url_for('static',filename='vendor/aos/aos.css')}}" rel =</pre>
"stylesheet">
       <link href = "{{</pre>
url_for('static',filename='/vendor/bootstrap/css/bootstrap.min.css')}}" rel =
"stylesheet">
       <link href = "{{ url_for('static',filename='vendor/bootstrap-icons/bootstrap-</pre>
icons.css')}}" rel = "stylesheet">
```

```
<link href = "{{</pre>
url for('static',filename='vendor/boxicons/css/boxicons.min.css')}}" rel =
"stylesheet">
       <link href = "{{</pre>
url_for('static',filename='vendor/glightbox/css/glightbox.min.css')}}" rel =
"stylesheet">
       <link href = "{{ url_for('static',filename='vendor/swiper/swiper-</pre>
bundle.min.css')}}" rel = "stylesheet">
     </head>
     <header id="header" class="fixed-top align-items-center header-opaque ">
       <div class="container d-flex justify-content-between align-items-center">
         <div class="logo">
           <h1 class="text-light"><a href="index.html"><span>HUMAN RESOURCE
MANAGEMENT</span></a></h1>
         </div>
         <nav id="navbar" class="navbar">
           <l
             <a class="active " href="/">Home</a>
             <a href="about">About</a>
             <a href="tra1n">Train</a>
             <a href="#"><span>Graphs</span> <i class="bi bi-</pre>
chevron-down"></i></a>
                 <!--<li><a href="chart1">missing values</a>-->
                 <a href="chart2">City Distribution</a>
                 <a href="chart3">City Development Index</a>
                 <a href="chart4">Enrolled Univertisty Index</a>
                 <a href="chart5">Educational Level Index</a>
                 <a href="chart6">Major Descipline</a>
                 <a href="chart7">Company Size</a>
                 <a href="chart8">Desired Employment Chart</a>
                 <i class="bi bi-list mobile-nav-toggle"></i></i></or>
         </nav><!-- .navbar -->
       </div>
     </header><!-- End Header -->
 <div id="chart" class="chart"></div>
</body>
<script id="graph" src="https://cdn.plot.ly/plotly-latest.min.js"></script>
<script id = "graph" type="text/javascript">
```

```
var graphs = {{graphJSON | safe}};
  Plotly.plot('chart',graphs,{});
</script>
</html>
```

RESULTS DISCUSSION

```
Windows PowerShell
Copyright (C) Hicrosoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\work\klstuff\year 2\sem4\pfsd\project\Human-Resource-Analysis-with-Python\main> python .\app2.py

* Serving Flask app 'app2' (lazy loading)

* Environment: production
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.

* Debug mode: on

* Restarting with watchdog (windowsapi)

* Debugger is active!

* Debugger PIN: 433-997-349

* Running on http://127.0.8.1:5800/ (Press CTRL+C to quit)

127.0.0.1 -- [03/May/2022 19:46:13] "GET / HTTP/1.1" 200 -

* Restarting with watchdog (windowsapi)

* Restarting with watchdog (windowsapi)

* Running on http://-17.0.8.1:5800/ (Press CTRL+C to quit)

127.0.0.1 -- [03/May/2022 19:46:13] "GET / static/vendor/bootstrap/css/bootstrap.min.css HTTP/1.1" 308 -

* Restarting with watchdog (windowsapi)

* Debugger is active!

* Debugger pIN: 433-997-349

* Running on http://127.0.8.1:5800/ (Press CTRL+C to quit)

127.0.0.1 -- [03/May/2022 19:46:15] "GET / static/vendor/bootstrap/css/bootstrap.min.css HTTP/1.1" 200 -

127.0.0.1 -- [03/May/2022 19:46:15] "GET / static/vendor/bootstrap/css/bootstrap.min.css HTTP/1.1" 200 -

127.0.0.1 -- [03/May/2022 19:46:15] "GET / static/vendor/swiper/swiper-bundle.min.css HTTP/1.1" 200 -

127.0.0.1 -- [03/May/2022 19:46:15] "GET / static/vendor/swiper/swiper-bundle.min.css HTTP/1.1" 200 -

127.0.0.1 -- [03/May/2022 19:46:15] "GET / static/vendor/swiper/swiper-bundle.min.css HTTP/1.1" 200 -

127.0.0.1 -- [03/May/2022 19:46:15] "GET / static/vendor/swiper/swiper-bundle.min.css HTTP/1.1" 200 -

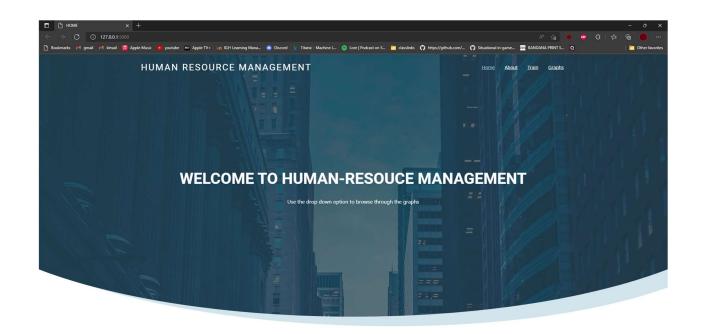
127.0.0.1 -- [03/May/2022 19:46:15] "GET / static/wendor/swiper/swiper-bundle.min.css HTTP/1.1" 200 -

127.0.0.1 -- [03/May/2022 19:46:15] "GET / static/wendor/swiper/swiper-bundle.min.css HTTP/1.1" 200 -

127.0.0.1 -- [03/May/2022 19:46:15] "GET / static/wendor/swiper/swiper-bundle.min.css HTTP/1.1" 200 -

127.0.0.1 -- [03/May/2022 19:46:15] "GET / stati
```

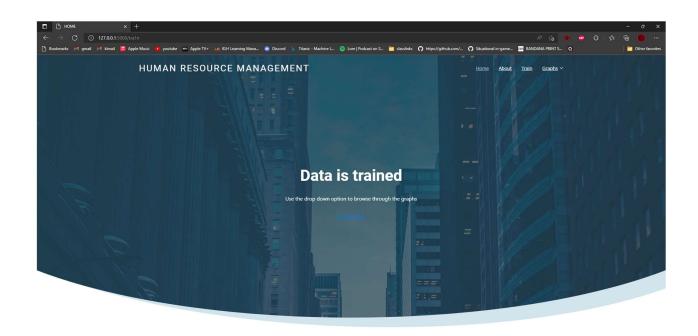
(terminal)



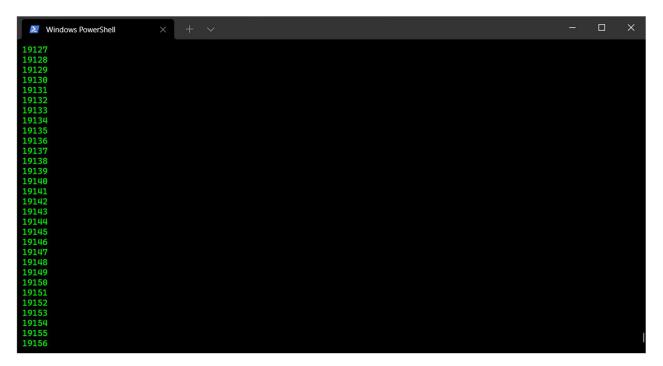
(home page)



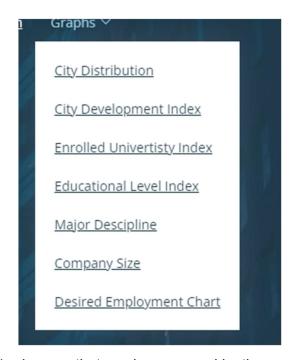
(about page)



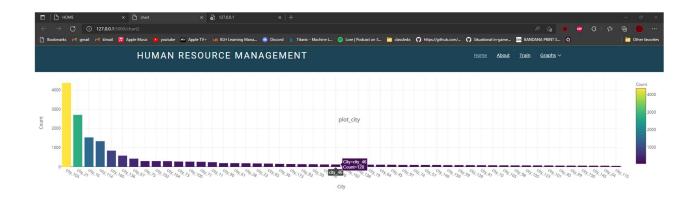
(the page which will be rendered once the data is trained)



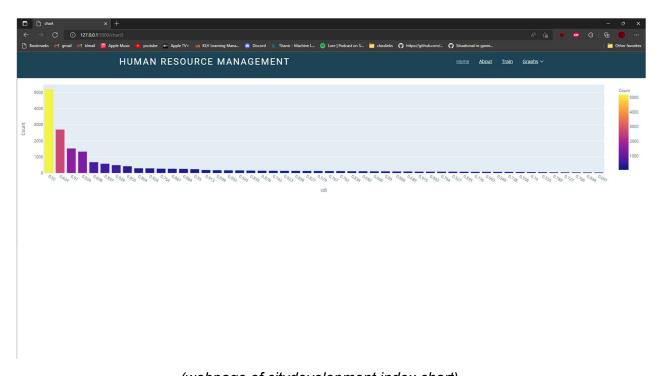
(output of the iterations)



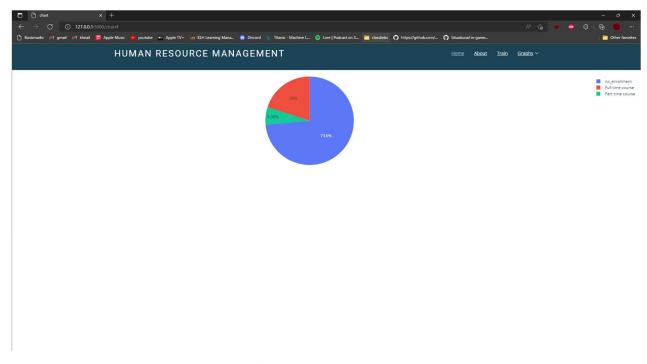
(webpages that can be accessed by the user)



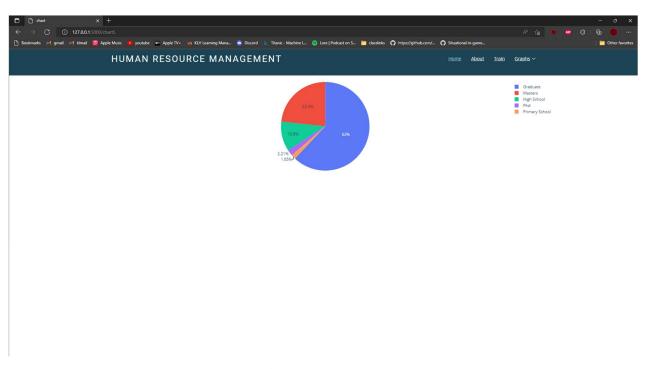
(webpage of the city distribution chart)



(webpage of citydevelopment index chart)



(webpage of the enrolled university chart)



(webpage of educational index chart)



(webpage for the trained data)

CONCLUSION AND FURURE WORK

- · The project portal is fully functional and predicts with desirable accuracy
- Adding more variables to generate the data for the targeted characteristics.
- Moving the web hosting service to Django or hosting it in a web server for testing will be appropriate representation of the intended real-life use

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