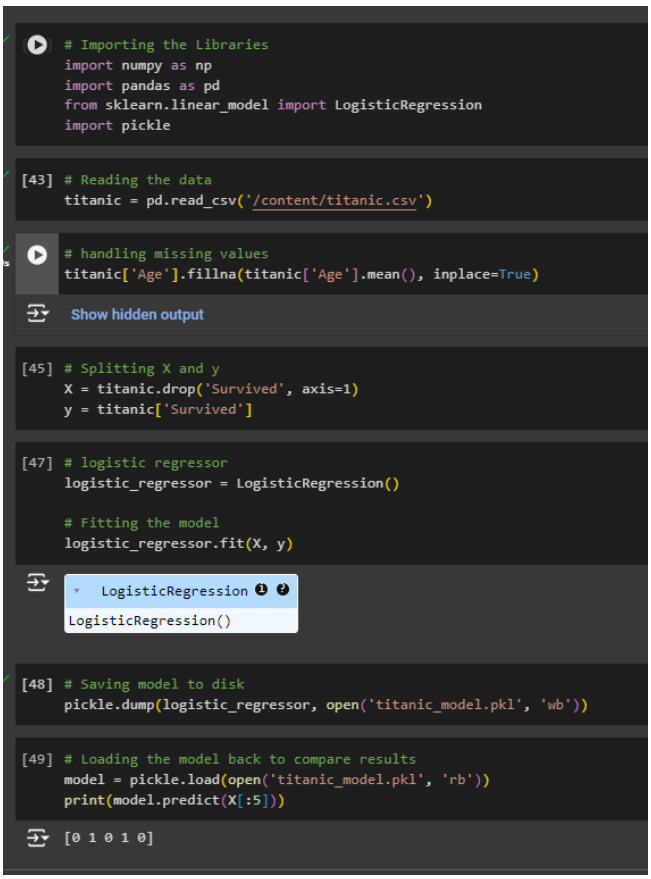
Data Intake Report

Name: Deployment on Flask
Report date: 09/10/2024
Internship Batch: LISUM34
Version: 1.0
Data intake by: Mahima Sadananda
Data intake reviewer: Data Glacier
Data storage location: https://github.com/MahimaSadananda/DataGlacier_Internship/tree/main

Tabular data details: titanic

Total number of observations	891
Total number of files	1
Total number of features	6
Base format of the file	.csv
Size of the data	15.1 KB

1. Model Setup



2. App.py

```python
import numpy as np
from flask import Flask, request, render_template
import pickle

app = Flask(__name__)
model = pickle.load(open('model.pkl', 'rb'))

@app.route('/')
def home():
    return render_template('index.html')

@app.route('/predict',methods=['POST'])
def predict():
    '''
    For rendering results on HTML GUI
    '''
    int_features = [int(x) for x in request.form.values()]
    final_features = [np.array(int_features)]
    prediction = model.predict(final_features)

    if prediction[0] == 0:
        output = "Did Not Survive :("
    else:
        output = "Survived :)"

    return render_template('index.html', prediction_text='Passenger - {}'.format(output))

if __name__ == "__main__":
    app.run(debug=True)
```

3. HTML

```
<!DOCTYPE html>
<html >
<head>
  <meta charset="UTF-8">
  <title>ML API</title>
  <link href='https://fonts.googleapis.com/css?family=Pacifico' rel='stylesheet' type='text/css'>
<link href='https://fonts.googleapis.com/css?family=Arimo' rel='stylesheet' type='text/css'>
<link href='https://fonts.googleapis.com/css?family=Hind:300' rel='stylesheet' type='text/css'>
<link href='https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300' rel='stylesheet' type='text/css'>
<link rel="stylesheet" href="{{ url_for('static', filename='css/style.css') }}">

</head>

<body>
 <div class="login">
  <h1>Titanic Survival Prediction</h1>

    <!-- Main Input For Receiving Query to our ML -->
    <form action="{{ url_for('predict')}}"method="post">
    <input type="text" name="Pclass" placeholder="Passenger Class" required="required" />
    <input type="text" name="Age" placeholder="Passenger Age" required="required" />
    <input type="text" name="SibSp" placeholder="No. of Siblings" required="required" />
    <input type="text" name="Parch" placeholder="Parents per Children" required="required" />
    <input type="text" name="Fare" placeholder="Ride Fare" required="required" />


      <button type="submit" class="btn btn-primary btn-block btn-large">Predict</button>
    </form>

   <br>
   <br>
   {{ prediction_text }}

 </div>
 <img src="/static/images/Original.svg" style="width: 400px;position: absolute;bottom: 10px;left: 10px;" alt="Company Logo"/>

</body>
</html>
```

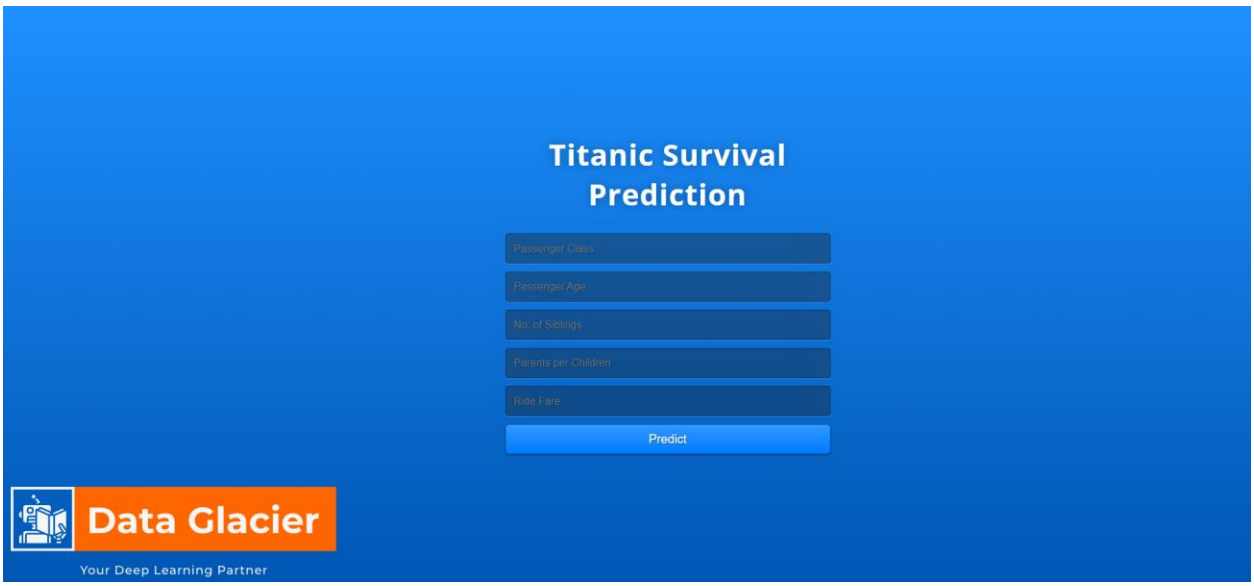
4. CSS

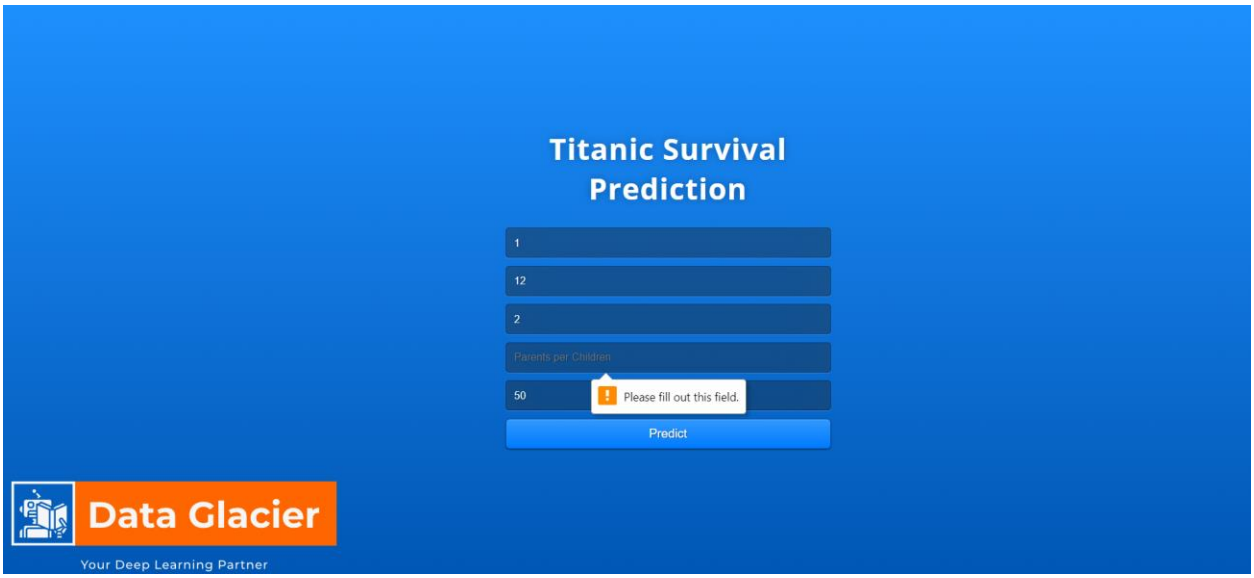
```css
@import url(https://fonts.googleapis.com/css?family=Open+Sans);

.btn {
    display: inline-block;
    *display: inline;
    *zoom: 1;
    padding: 4px 10px 4px;
    margin-bottom: 0;
    font-size: 13px;
    line-height: 18px;
    color: #333333;
    text-align: center;
    text-shadow: 0 1px 1px rgba(255, 255, 255, 0.75);
    vertical-align: middle;
    background-color: #f5f5f5;
    background-image: -moz-linear-gradient(top, #ffffff, #e6e6e6);
    background-image: -ms-linear-gradient(top, #ffffff, #e6e6e6);
    background-image: -webkit-gradient(linear, 0 0, 0 100%, from(#ffffff), to(#e6e6e6));
    background-image: -webkit-linear-gradient(top, #ffffff, #e6e6e6);
    background-image: -o-linear-gradient(top, #ffffff, #e6e6e6);
    background-image: linear-gradient(to bottom, #ffffff, #e6e6e6); /* Updated for gradient direction */
    background-repeat: repeat-x;
    filter: progid:dximagetransform.microsoft.gradient(startColorstr=#ffffff, endColorstr=#e6e6e6, GradientType=0);
    border-color: #e6e6e6 #e6e6e6 #e6e6e6;
    border-color: rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.25);
    border: 1px solid #e6e6e6;
    -webkit-border-radius: 4px;
    -moz-border-radius: 4px;
    border-radius: 4px;
    -webkit-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
    -moz-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
    box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
    cursor: pointer;
    *margin-left: .3em;
}

.btn:hover, .btn:active, .btn.active, .btn.disabled, .btn[disabled] {
    background-color: #e6e6e6;
}

.btn-large {
    padding: 9px 14px;
    font-size: 15px;
    line-height: normal;
    -webkit-border-radius: 5px;
    -moz-border-radius: 5px;
    border-radius: 5px;
}

.btn:hover {
```

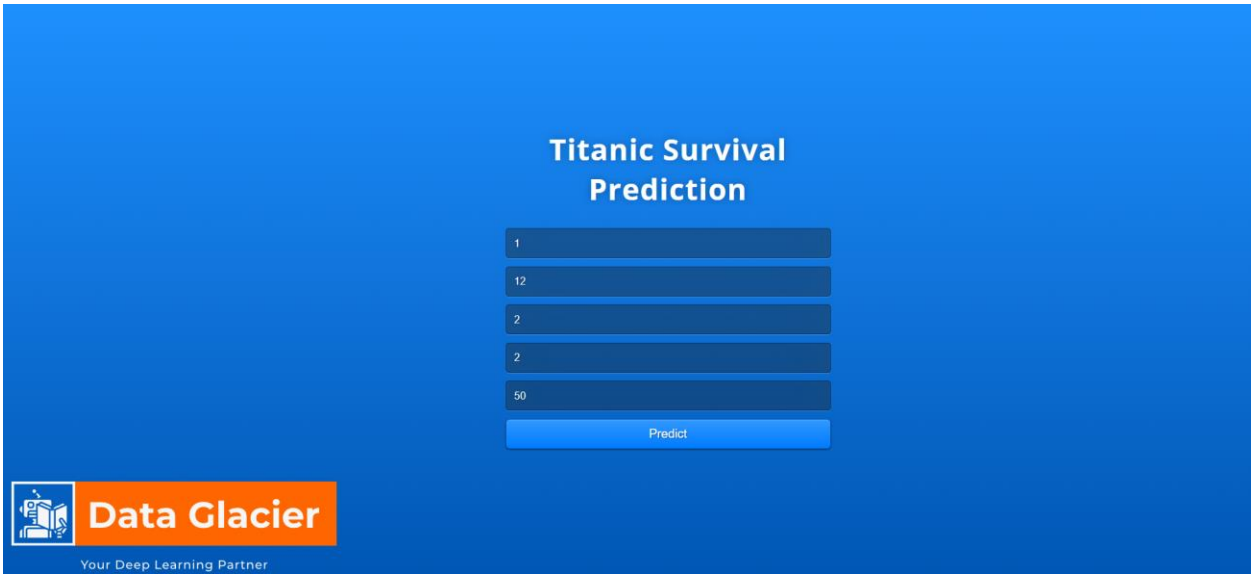
```css
.btn-primary {
    background-color: #007bff; /* Changed to a blue color */
    background-image: -moz-linear-gradient(top, #3399ff, #007bff); /* Updated for blue gradient */
    background-image: -ms-linear-gradient(top, #3399ff, #007bff);
    background-image: -webkit-gradient(linear, 0 0, 0 100%, from(#3399ff), to(#007bff));
    background-image: -webkit-linear-gradient(top, #3399ff, #007bff);
    background-image: -o-linear-gradient(top, #3399ff, #007bff);
    background-image: linear-gradient(to bottom, #3399ff, #007bff); /* Updated for gradient direction */
    background-repeat: repeat-x;
    filter: progid:dximagetransform.microsoft.gradient(startColorstr=#3399ff, endColorstr=#007bff, GradientType=0);
    border: 1px solid #0056b3; /* Darker border color */
    text-shadow: 1px 1px 1px rgba(0, 0, 0, 0.4);
    box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.5);
}

.btn-primary:hover, .btn-primary:active, .btn-primary.active, .btn-primary.disabled, .btn-primary[disabled] {
    filter: none;
    background-color: #0056b3; /* Darker on hover */
}

.btn-block {
    width: 100%;
    display: block;
}

* {
    -webkit-box-sizing: border-box;
    -moz-box-sizing: border-box;
    -ms-box-sizing: border-box;
    -o-box-sizing: border-box;
    box-sizing: border-box;
}
```

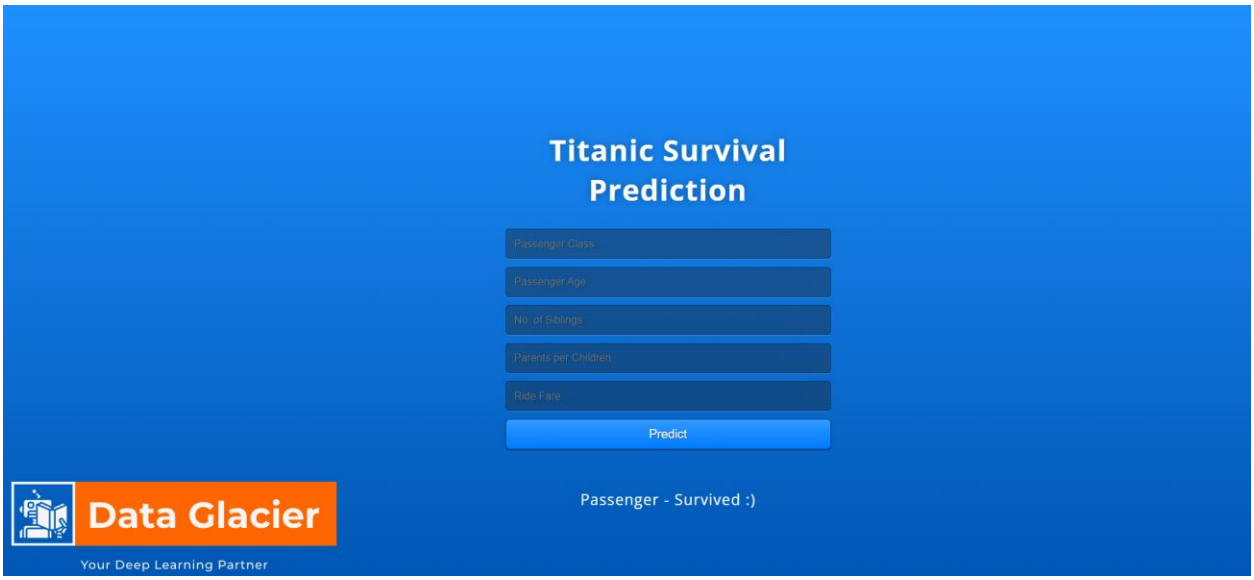
```css
html {
    width: 100%;
    height: 100%;
    overflow: hidden;
}

body {
    width: 100%;
    height: 100%;
    font-family: 'Open Sans', sans-serif;
    color: #fff;
    font-size: 18px;
    text-align: center;
    letter-spacing: 1.2px;
    background: linear-gradient(to bottom, #1e90ff, #0056b3) !important; /* Updated background to blue gradient */
}

.login {
    position: absolute;
    top: 40%;
    left: 50%;
    margin: -150px 0 0 -150px;
    width: 400px;
    height: 400px;
}

.login h1 {
    color: #fff;
    text-shadow: 0 0 10px rgba(0, 0, 0, 0.3);
    letter-spacing: 1px;
    text-align: center;
}

input {
    width: 100%;
    margin-bottom: 10px;
    background: rgba(0, 0, 0, 0.3);
    border: none;
    outline: none;
    padding: 10px;
    font-size: 13px;
    color: #fff;
    text-shadow: 1px 1px 1px rgba(0, 0, 0, 0.3);
    border: 1px solid rgba(0, 0, 0, 0.3);
    border-radius: 4px;
    box-shadow: inset 0 -5px 45px rgba(100, 100, 100, 0.2), 0 1px 1px rgba(255, 255, 255, 0.2);
    -webkit-transition: box-shadow .5s ease;
    -moz-transition: box-shadow .5s ease;
    -o-transition: box-shadow .5s ease;
    -ms-transition: box-shadow .5s ease;
    transition: box-shadow .5s ease;
}

input:focus {
    box-shadow: inset 0 -5px 45px rgba(100, 100, 100, 0.4), 0 1px 1px rgba(255, 255, 255, 0.2);
}
```

5. FLASK Deployment




Titanic Survival Prediction
1
12
2
Parents per Children
50
Please fill out this field.
Predict
Data Glacier
Your Deep Learning Partner


Titanic Survival Prediction
1
12
2
2
50
Predict
Data Glacier
Your Deep Learning Partner


Titanic Survival Prediction
Passenger Class
Passenger Age
No. of Siblings
Parents per Children
Ride Fare
Predict
Passenger - Survived :)
Data Glacier
Your Deep Learning Partner