Name: Zhanqiu Guo

Batch Code: LISUM19

Submission Date: 2023-3-20

Submitted To: https://github.com/Zhanqiu-Guo/Data-Glacier-Projects.git

Deploy Model:

```
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      from sklearn.datasets import load_iris
      from sklearn.linear_model import LogisticRegression # importing Sklearn's logistic regression's module from sklearn.model_selection import train_test_split
      from sklearn.linear_model import LogisticRegression
      import pandas as pd
       from flask import Flask, jsonify, request, render_template
      X_train, X_test, y_train, y_test = train_test_split(iris.data, iris.target, test_size=0.25, random_state=42)
      X_train = scale.fit_transform(X_train)
      # Save the model to disk
filename = 'finalized_model.sav'
       joblib.dump(model, filename)
       app = Flask(__name__)
      # Load the saved model
       model = joblib.load('finalized_model.sav')
       @app.route('/')
          return render_template('index.html')
       @app.route('/predict', methods=['POST'])
                   input from user and make prediction using loaded m
           float_features = [float(x) for x in request.form.values()]
           final_features = [np.array(float_features)]
           prediction = model.predict(final_features)
          output = round(prediction[0], 2)
return render_template('index.html', prediction_text='The flower is most likely to be {}'.format(dict[output]))
       if __name__ == '__main__':
    app.run(port=5000, debug=True)
           app.run(debug=True, host="0.0.0.0", port=8989)
```

Create PDF:

```
create_pdf.py X
create_pdf.py > \( \Omega \) create_pdf
       from reportlab.lib.pagesizes import letter
       from reportlab.platypus import SimpleDocTemplate, Paragraph, Spacer, Image
       from reportlab.lib.styles import getSampleStyleSheet
      def create_pdf(name, batch_code, submission_date, submitted_to, image_paths):
           doc = SimpleDocTemplate("output.pdf", pagesize=letter)
           styles = getSampleStyleSheet()
           story = []
           ptext = f'Name: {name}'
           story.append(Paragraph(ptext, styles["Normal"]))
           story.append(Spacer(1, 12))
           ptext = f'Batch Code: {batch_code}'
           story.append(Paragraph(ptext, styles["Normal"]))
           story.append(Spacer(1, 12))
           ptext = f'Submission Date: {submission_date}'
           story.append(Paragraph(ptext, styles["Normal"]))
           story.append(Spacer(1, 12))
           ptext = f'Submitted To: {submitted_to}'
           story.append(Paragraph(ptext, styles["Normal"]))
           story.append(Spacer(1, 12))
           ptext = f'Deploy Model: '
           story.append(Paragraph(ptext, styles["Normal"]))
           story.append(Spacer(1, 12))
           im1 = Image(image_paths[0])
           im1. restrictSize(600,600)
           story.append(im1)
           ptext = f'Create PDF: '
           story.append(Paragraph(ptext, styles["Normal"]))
           story.append(Spacer(1, 12))
           im2 = Image(image_paths[1])
           im2._restrictSize(600,600)
           story.append(im2)
 38
           doc.build(story)
      create_pdf(
          "Zhanqiu Guo",
          "LISUM19",
          "2023-3-20",
          "https://github.com/Zhanqiu-Guo/Data-Glacier-Projects.git",
          ["Deploy_Model.png", "Create_PDF.png"]
```