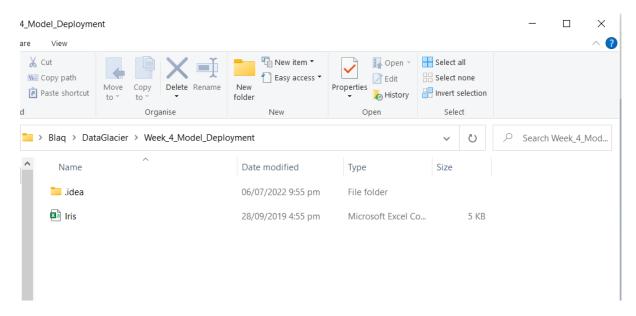
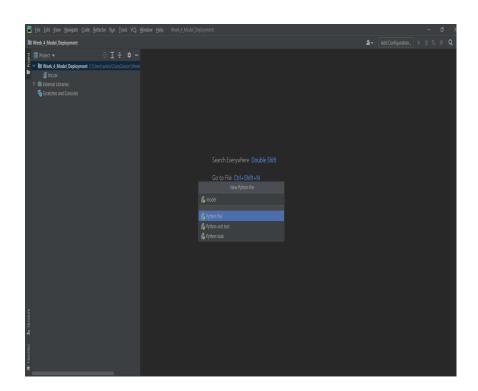
#### MODEL DEPLOYMENT ON WEB USING FLASK

# Import Iris file



# Create prediction model python file



#### **Import Libraries**

## Import Iris CSV file

```
| File Edit View Navigate Code Refactor Run Tools VCS Window Help Week.4.Model.Deployment-model.py | Add Configuration. | Import to the Configuration | Importance | Importanc
```

## Set Target attribute

```
# Define target attribute (species)

y = iris['species']

iris.drop(columns='species'_inplace=True)

X = iris[['sepal_length', 'sepal_width', 'petal_length', 'petal_width']]

16
```

#### Train the model

```
# Training the model

x_train_x_test_y_train_y_test = train_test_split(X_y, test_size=0.3)

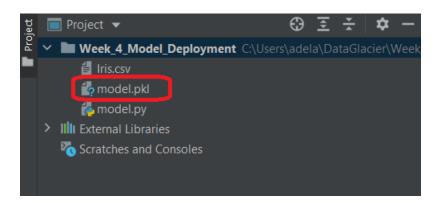
model = LogisticRegression()

model.fit(x_train_y_train)
```

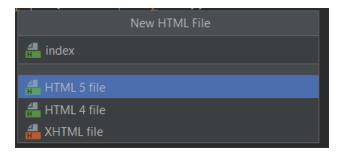
### Create pickle file

```
# Create pickle file
pickle.dump(model_open('model.pkl'_\(\dots\))

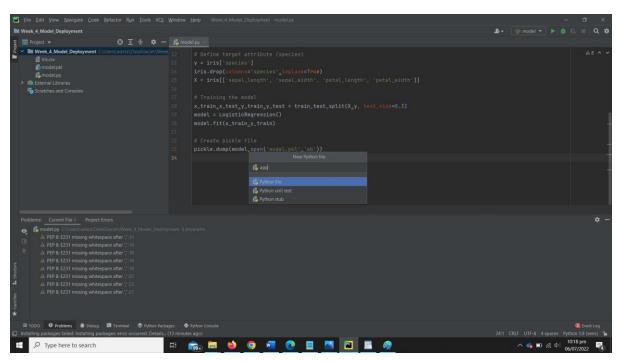
24
```



#### Create Index HTML file



## Create application file



Import libraries

Initialize application

Load training model

Set Webpage route directories

```
## File Edit View Navigate Code Refactor Run Tools VCS Window Help Week.4.Model_Deployment -app.py

## Week.4.Model_Deployment Cutsers adelal Data Glader Week

| *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** |
```

# Retrieve form values and display predictions

```
# retrieving values from form
init_features = [float(x) for x in request.form.values()]
final_features = [np.array(init_features)]

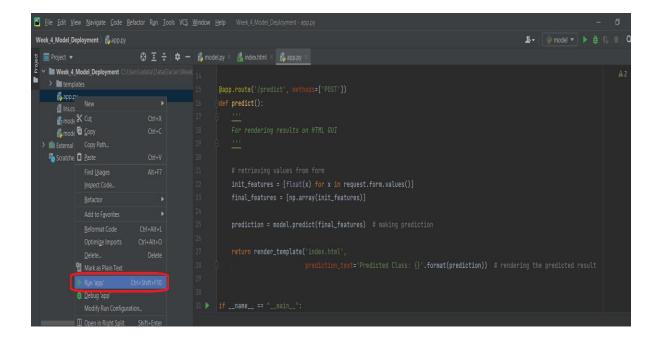
prediction = model.predict(final_features) # making prediction

return render_template('index.html',

prediction_text='Predicted Class: {}'.format(prediction)) # rendering the predicted result

if __name__ == "__main__":
```

### Run application



```
* Serving Flask app 'app' (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

* Running on http://127.0.0.1:5000 (Press CTRL+C to quit)

* Restarting with watchdog (windowsapi)

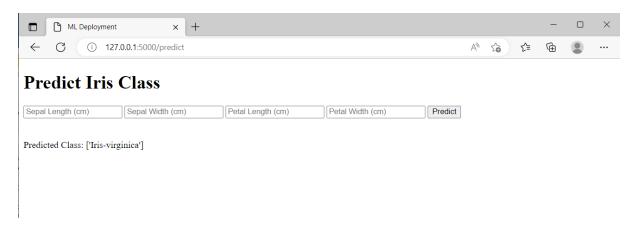
* Debugger is active!

* Debugger PIN: 644-132-729
```

### Web based prediction Model



#### **Prediction Result**



#### Files and Folders created

