EXPLORER

FLASK APPLICATION SKL...

- static
- templates
- app.py
- dataset_explore.ipynb
- diabetes_model.pkl
- model.py
- requirements.txt

OUTLINE

TIMELINE

app.py

app.py > ...

Click here to ask Blackbox to help you code faster

```python
from flask import Flask, request, render_template
import joblib

app = Flask(__name__)
model = joblib.load('diabetes_model.pkl')

@app.route('/', methods=['GET', 'POST'])
def index():
    if request.method == 'POST':
        # Extract data from form
        data = [float(request.form.get('feature'+str(i))) for i in range(10)]

        # Make prediction
        prediction = model.predict([data])[0]

        return render_template('index.html', result=prediction)
    return render_template('index.html', result=None)

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

```

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OUTLINE

TIMELINE

dataset_explore.ipynb

dataset_explore.ipynb

+ Code + Markdown | Run All | Clear All Outputs | Outline ··· Detecting Kernels

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```
from sklearn import datasets
diabetes = datasets.load_diabetes(scaled=False)
import pandas as pd
print(diabetes.keys())
```

[26] Python

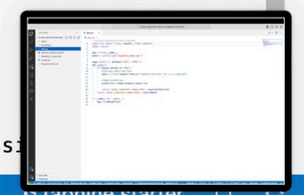
```
dict_keys(['data', 'target', 'frame', 'DESCR', 'feature_names', 'data_filename', 'target_filename', 'data_module'])
```

Click here to ask Blackbox to help you code faster

```
print(diabetes.DESCR)
```

[29] Python

```
**Data Set Characteristics:**

  :Number of Instances: 442

  :Number of Attributes: First 10 columns are numeric predictive values

  :Target: Column 11 is a quantitative measure of disease progression one year after baseline

  :Attribute Information:
      - age     age in years
      - sex
      - bmi     body mass index
      - bp      average blood pressure
      - s1      tc, total serum cholesterol
      - s2      ldl, low-density lipoproteins
      - s3      hdl, high-density lipoproteins
      - s4      tch, total cholesterol / HDL
      - s5      ltg, possibly log of serum triglycerides level
      - s6      glu, blood sugar level

Note: Each of these 10 feature variables have been mean centered and scaled by the standard deviation times the square root of `n_samples` (i.e. the sum
of squares of each column totals 1).

Source URL:
https://www4.stat.ncsu.edu/~boos/var.select/diabetes.html

For more information see:
Bradley Efron, Trevor Hastie, Iain Johnstone and Robert Tibshirani (2004) "Least Angle Regression," Annals of Statistics (with discussi
(https://web.stanford.edu/~hastie/Papers/LARS/LeastAngle_2002.pdf)
```



EXPLORER

FLASK APPLICATION SKLEARN DIABETES ...

- static
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- model.py 2, M
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model.py 2, M

model.py > ...

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```python
from sklearn import datasets
from sklearn.linear_model import LinearRegression
import joblib

# Load dataset
diabetes = datasets.load_diabetes(scaled=False)

# Create and train a linear regression model
model = LinearRegression()
model.fit(diabetes.data, diabetes.target)

# Save the model
joblib.dump(model, 'diabetes_model.pkl')
```

OUTLINE

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```

PROBLEMS 4 OUTPUT DEBUG CONSOLE TERMINAL PORTS SEARCH ERROR COMMENTS

zsh

```
(Venv1) Yusuf@MacBook-Pro Flask Application Sklearn Diabetes Prediction % python3 model.py
```

OUTLINE

TIMELINE

main* 0 0 4 0 Share Code Link Generate Commit Message Explain Code Comment Code Code Chat Missing module docstring Search Error Python 3.11.0 ('Venv1': venv) Blackbox tabnine starter

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```

PROBLEMS 4 OUTPUT DEBUG CONSOLE TERMINAL PORTS SEARCH ERROR COMMENTS

Python

```
(Venv1) Yusuf@MacBook-Pro Flask Application Sklearn Diabetes Prediction % python3 model.py
(Venv1) Yusuf@MacBook-Pro Flask Application Sklearn Diabetes Prediction % python3 app.py
 * Serving Flask app 'app'
 * Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 104-783-242
```

OUTLINE

TIMELINE

Diabetes Prediction

Age in Years

Sex (1 = Male, 2 = Female)

Body Mass Index

Average Blood Pressure

TC - Total Serum Cholesterol

LDL - Low-Density Lipoproteins

HDL - High-Density Lipoproteins

TCH - Total Cholesterol / HDL

LTG - Log of Serum Triglycerides Level

GLU - Blood Sugar Level

Predict

Diabetes Prediction

50
1
10
90
10
10
10
10
10
10

Predict

Quantitative measure of disease progression one year after baseline: -127.37697477595123

Diabetes Prediction

Age in Years

Sex (1 = Male, 2 = Female)

Body Mass Index

Average Blood Pressure

TC - Total Serum Cholesterol

LDL - Low-Density Lipoproteins

HDL - High-Density Lipoproteins

TCH - Total Cholesterol / HDL

LTG - Log of Serum Triglycerides Level

GLU - Blood Sugar Level

Predict

Quantitative measure of disease progression one year after baseline: 550.5528197638109