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# Step 1: Load and explore the diabetes dataset
  import pandas as pd
  from sklearn.datasets import load_diabetes
  # Load the diabetes dataset
  data = load_diabetes()
  df = pd.DataFrame(data.data, columns=data.feature_names)
  df['target'] = data.target
 # Step 2: Save the model
 from sklearn.linear_model import LinearRegression
 import joblib
 # Create and train the model
X = df.drop('target', axis=1)
 y = df['target']
model = LinearRegression()
 model.fit(X, y)
 # Save the model to a file
model_filename = 'diabetes_model.pkl'
joblib.dump(model, model_filename)
 ['diabetes_model.pkl']
 # Step 3: Deploy the model on Flask (web app)
 from flask import Flask, request, jsonify
 # Load the model
  loaded_model = joblib.load(model_filename)
  # Create the Flask app
  app = Flask(__name__)
 # Define a prediction route
@app.route('/predict', methods=['POST'])
def predict():
      data = request.get_json()
prediction = loaded_model.predict([data['features']])
return jsonify({'prediction': prediction[0]})
```

* Serving Flask app '__main__'

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

* Debug mode: on