How to Create Liver Cirrhosis Prediction Flask App in VS Code

Step 1: Create Project Folder

Create a new folder called project-file on your system.

Step 2: Create Required Files and Folders

Inside project-file, create the following:

- app.py
- rf_acc_68.pkl (download from Colab)
- normalizer.pkl (download from Colab)
- requirements.txt
- templates/ folder with index.html inside it

Step 3: app.py (Flask Backend Code)

Paste this content into app.py:

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

app = Flask(__name__)
model = pickle.load(open('rf_acc_68.pkl', 'rb'))
scaler = pickle.load(open('normalizer.pkl', 'rb'))

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

@app.route('/predict', methods=['POST'])
```

```
def predict():
    data = [float(x) for x in request.form.values()]
    scaled = scaler.transform([data])
    pred = model.predict(scaled)
    result = 'Cirrhosis Likely' if pred[0]==1 else 'Cirrhosis Not Likely'
    return render_template('index.html', prediction_text=result)

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

Step 4: templates/index.html

Create a file index.html inside the templates/ folder with this content:

```
<!DOCTYPE html>
<html>
<head><title>Liver Prediction</title></head>
<body>
  <h2>Enter Patient Details</h2>
  <form action='/predict' method='POST'>
    <!-- Add all input fields -->
    <input name='Age'> ... <br>
    <button type='submit'>Predict</button>
  </form>
  {% if prediction_text %}<h3>{{ prediction_text }}</h3>{% endif %}
</body>
</html>
```

Step 5: requirements.txt

Inside requirements.txt, paste:

flask

pandas

numpy

scikit-learn

Step 6: Run Flask App in VS Code

Open the terminal in VS Code inside the project folder and run:

pip install -r requirements.txt

python app.py

Visit http://127.0.0.1:5000 in your browser to test the app.

Step 7: Upload to GitHub

Upload the full project-file folder with all contents to your GitHub repo.