Let's walk through **step-by-step Streamlit deployment** for your machine learning model.

**Steps to Deploy ML Model Using Streamlit**

**1. Folder Structure**

ml-streamlit-app/

├── model.joblib

├── app.py ← (your Streamlit code)

└── requirements.txt

**2. Install Streamlit**

Run in terminal or Anaconda Prompt:

pip install streamlit joblib

**3. Sample app.py Code**

import streamlit as st

import joblib

import numpy as np

# Load model

model = joblib.load("model.joblib")

# Streamlit app

st.title("Binary Classifier")

st.write("Enter values to get a prediction")

# Inputs

feature1 = st.number\_input("Feature 1", step=0.01)

feature2 = st.number\_input("Feature 2", step=0.01)

# Predict

if st.button("Predict"):

input\_data = np.array([[feature1, feature2]])

prediction = model.predict(input\_data)

pred\_class = "Class 1" if prediction[0] == 1 else "Class 0"

st.success(f"Predicted Class: {pred\_class}")

**4. Run the App**

Open terminal, go to project folder, then run:

python -m streamlit run app.py

It will launch in browser at http://localhost:8501

**5. Test With Sample Inputs**

Enter values in the two input boxes and hit **Predict** — you'll see the predicted class (0 or 1) instantly.

**Final Checklist**

| **Task** | **Done?** |
| --- | --- |
| Trained & saved model | Yes |
| Created app.py | Yes |
| Used number\_input in UI | Yes |
| Used .predict() properly | Yes |
| Ran streamlit run app.py | Yes |