Streamlit App for ICP Waveform Detection - Setup Guide
This guide will help you run your Streamlit app using app.py and best.pt on your laptop.
1. Install Python (if not already installed)
- Recommended version: Python 3.9 - 3.11
- Download from: https://www.python.org/downloads/
2. Create and Activate a Virtual Environment (optional but recommended)
Navigate to your project folder:
cd path\to\your\project-folder
Create virtual environment:
python -m venv venv
Activate it:
venv\Scripts\activate (on Windows)
3. Install Required Packages
Run the following:
pip install streamlit torch torchvision torchaudioindex-url https://download.pytorch.org/whl/cpu
pip install opencv-python pillow numpy
If using cloned YOLOv5 repo:
pip install -r yolov5/requirements.txt

4. Ensure Files Are in Place
In your folder:
- app.py <- Streamlit script
- best.pt <- YOLOv5 model
5. Optional: Fix PosixPath Error on Windows
Add this to the top of app.py:
import pathlib
from pathlib import WindowsPath
pathlib.PosixPath = WindowsPath
6. Run the Streamlit App
From terminal:
streamlit run app.py
7. Access the App
Once launched, go to:
http://localhost:8501
Your app will open in the browser automatically if not blocked by firewall.