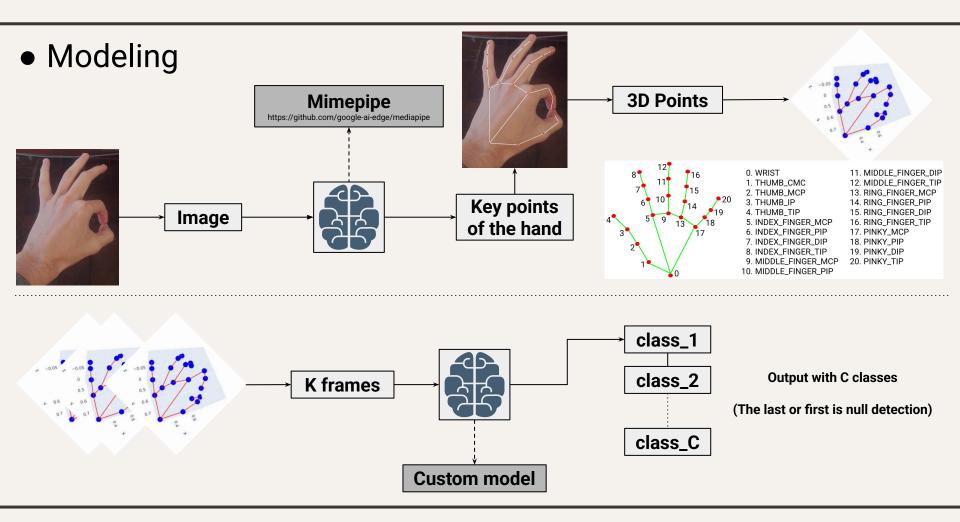
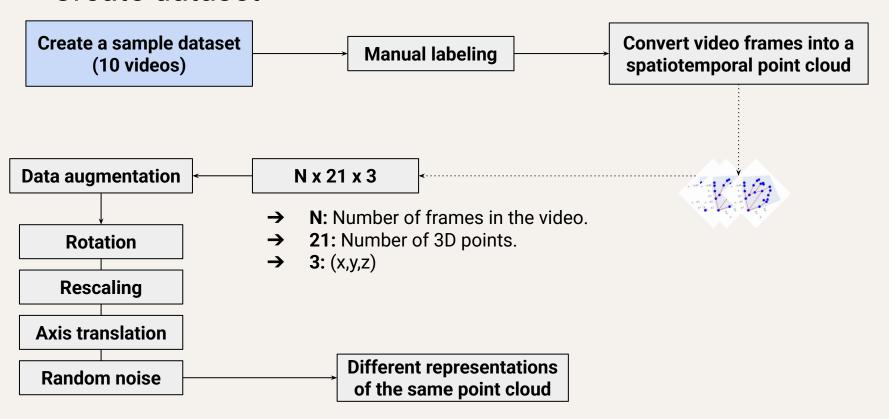
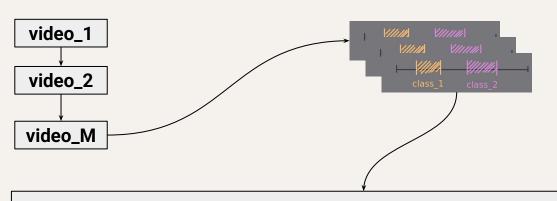
Hand gesture classifier



Create dataset



Handling dataset intervals



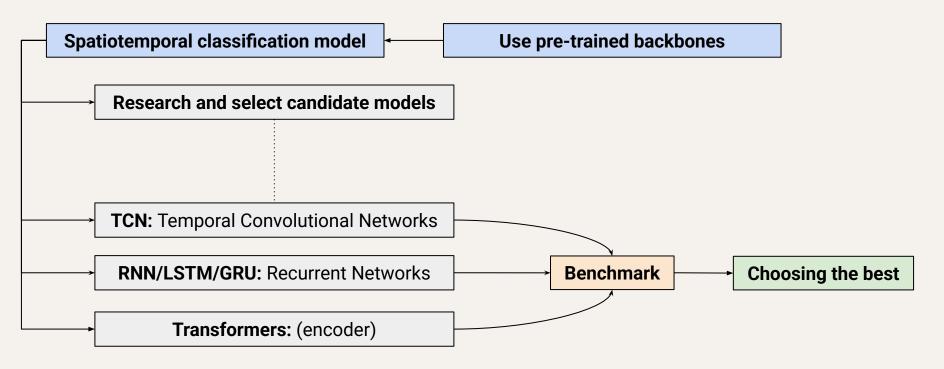


Windows are obtained

For each window, the percentage of overlap with the class is obtained.

If it exceeds a threshold, it will be that class; otherwise, it will be an empty class.

Custom model (Try and choose)



Production flow **Custom Model: Save prediction** Classify **Next input** frame **DB** of key points **Extract 3D points from** the previous K frames Mimepipe: Save **Get keypoints** no yes is there a hand?

• Export .onnx https://docs.pytorch.org/tutorials/beginner/onnx/export_simple_model_to_onnx_tutorial.html

3. Export the model to ONNX format Now that we have our model defined, we need to instantiate it and create a random 32x32 input. Next, we can export the model to ONNX format. torch_model = ImageClassifierModel() # Create example inputs for exporting the model. The inputs should be a tuple of tensors. example_inputs = (torch.randn(1, 1, 32, 32),) onnx_program = torch.onnx.export(torch_model, example_inputs, dynamo=True)

4. Save the ONNX model in a file Although having the exported model loaded in memory is useful in many applications, we can save it to disk with the following code: onnx_program.save("image_classifier_model.onnx") You can load the ONNX file back into memory and check if it is well formed with the following code: import onnx onnx_model = onnx.load("image_classifier_model.onnx") onnx.checker.check_model(onnx_model)

Draft

