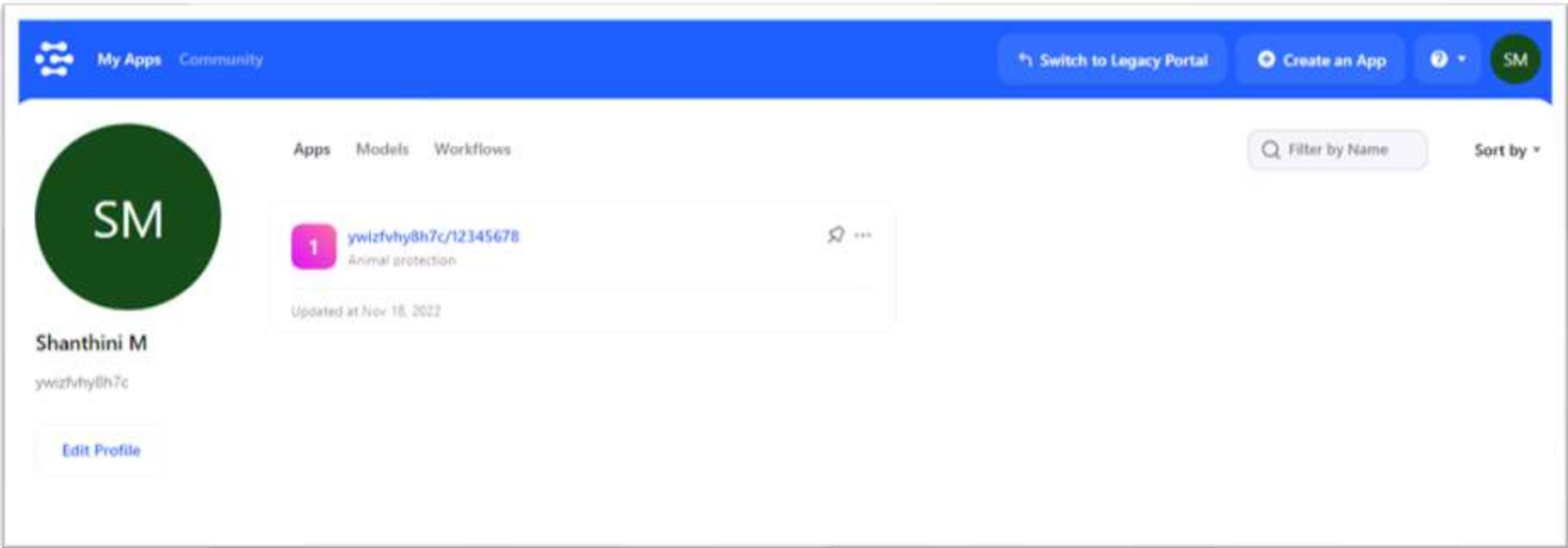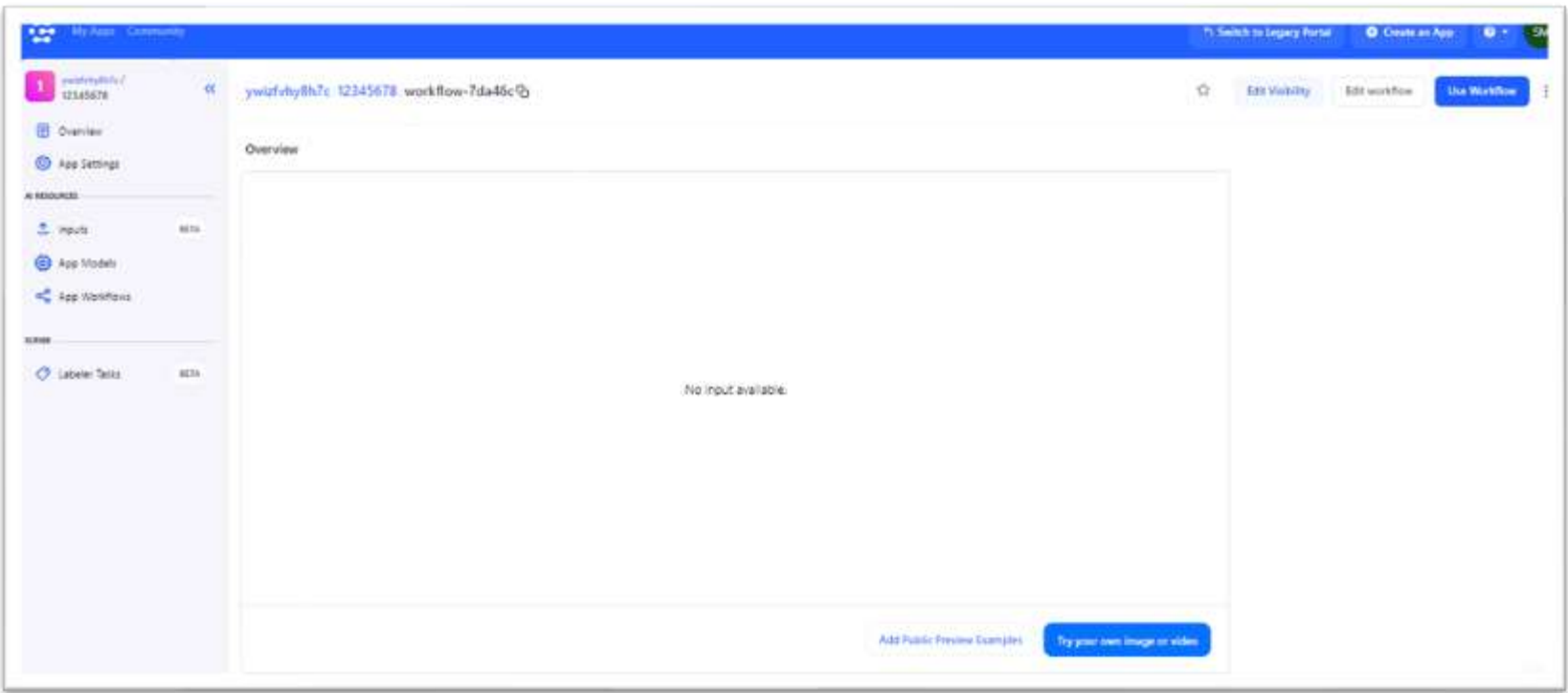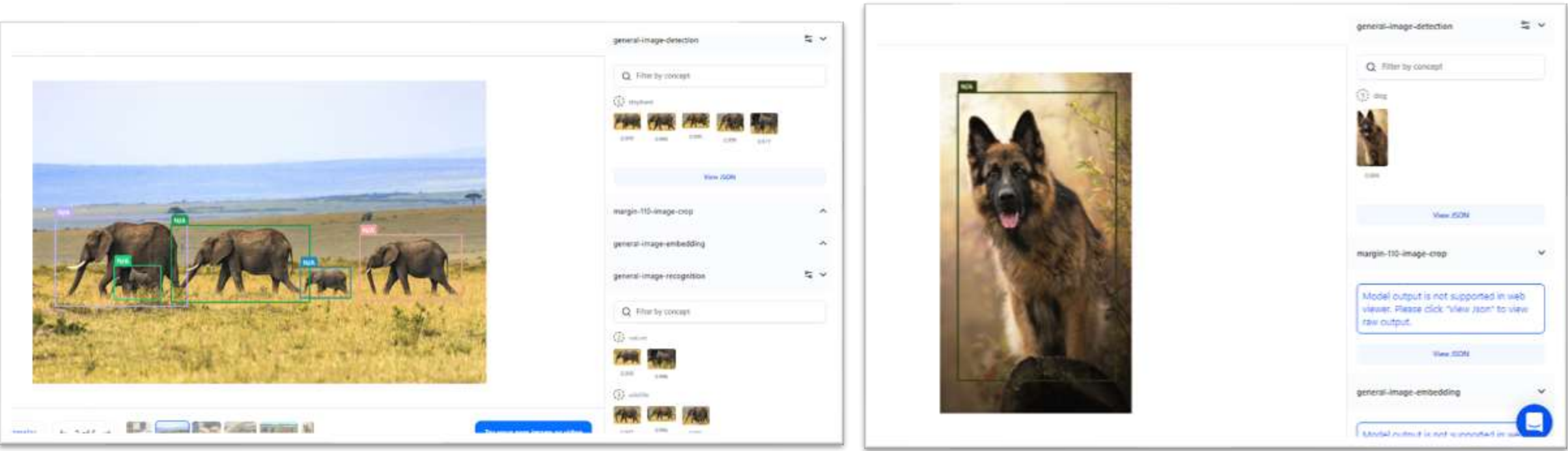| SPRINT-3	
Team ID	PNT2022TMID37200
Project Name	IoT Based Smart Crop Protection System for Agriculture

DETECTION OF ANIMALS:

The animals and birds near the farm is detected using the clarifai app and the code in it.

Created an app using the workflow in clarifai portal.

The input video or image is given

From the given image, it is detected the variety of animals.

PYTHON CODE OF IMAGE DETECTION:

```python
from clarifai_grpc.channel.clarifai_channel import ClarifaiChannel
from clarifai_grpc.grpc.api import resources_pb2, service_pb2, service_pb2_grpc
from clarifai_grpc.grpc.api.status import status_code_pb2
channel = ClarifaiChannel.get_grpc_channel()
stub = service_pb2_grpc.V2Stub(channel)
metadata = (('authorization', 'Key ' + 1dff3b7c2e5f4c8f9d08a0ef7c8ce141),)
userDataObject = resources_pb2.UserAppIDSet(user_id=clarifai, app_id=main)
post_model_outputs_response = stub.PostModelOutputs(
    service_pb2.PostModelOutputsRequest(
        user_app_id=userDataObject,
        model_id=general-image-recognition,
        version_id={MODEL_VERSION},   # This is optional. Defaults to the latest model version.
        inputs=[
            resources_pb2.Input(
                data=resources_pb2.Data(
                    image=resources_pb2.Image(
                        url={IMAGE_URL}
                    )
                )
            )
        ]
    ),
    metadata=metadata
)
if post_model_outputs_response.status.code != status_code_pb2.SUCCESS:
    print(post_model_outputs_response.status)
    raise Exception("Post model outputs failed, status: " + post_model_outputs_response.status.description)
# Since we have one input, one output will exist here.
output = post_model_outputs_response.outputs[0]
print("Predicted concepts:")
for concept in output.data.concepts:
    print("%s %.2f" % (concept.name, concept.value))
# Uncomment this line to print the full Response JSON
#print(post_model_outputs_response)
```