

# Sushi Team's RoboFlow Guide

## Introduction:

Hello! Sushi team is excited to welcome you to our Roboflow workspace and annotation guide. Our goal with this guide is to illustrate how we went about our machine learning development such that if you would like to take what we have worked on and develop it further, you will have a solid jumping off point.

## Getting started with Roboflow:

The Annotation of the KAB dataset took place on <https://roboflow.com/>. To get started, the first step is to sign up. to do this, simply click the “Sign Up” tab in the top right of the screen. Once you do, you will be prompted to create a roboflow account. Follow the steps as presented. If you have a github account or already have a roboflow account, you can instead choose to sign in.

**roboflow**

Login or Create an Account

Sign in with work email

Sign in with GitHub

By continuing, you are indicating that you accept our [Terms of Service](#) and [Privacy Policy](#).

Don't have an account? [Sign up for free.](#)

**Sign Up using School Email**

**roboflow**

How will you be using Roboflow?

This helps us understand how to best support you.

My Startup

**School Projects**

Personal Use

A small business

An Enterprise

Other

**Select School Projects**

Continue

## Accessing the Project:

We have added our client to the roboflow workspace that we worked on already, however if their access is unavailable for whatever reason our dataset can be added by doing the following steps:

1: Access the KAAB-ML Github repository here: <https://github.com/SushiTeam2022/KAAB-ML>

2: Download the files in the “Dataset” folder

Dataset	Add files via upload	3 days ago
Documentation	Delete Blank.txt	3 days ago
Images	Add files via upload	2 months ago
Reports & Diagrams	Add files via upload	2 days ago
SAMPLES	Add files via upload	22 hours ago
Scripts & Weights	Update README.md	3 days ago
YOLOv5	Update README.md	3 days ago
README.md	Update README.md	yesterday
client.py	Added a simple image socket program	2 months ago
main.py	Added a simple image socket program	2 months ago

3: Create a new workspace on Roboflow and open a new project and select “Upload Your Own Data”.

New Workspace ⚙

### Welcome to your new workspace!

A workspace helps you manage datasets and models and collaborate with your team or organization.

Let's start by customizing it.

Workspace Name: E.g. business, class, team name

How will you be using this workspace?

☐ Work

☐ School

☐ Personal

Continue

## Create Project



Upload Your Own Data

**Tutorial**



**Download Sample Project**

chessSampleData.zip (0.6MB)

4: fill out the project details:

## Create Project

NewML /  New Public Project

Project Name

Example\_Project

License


CC BY 4.0



Project Type

Multi-Label Classification



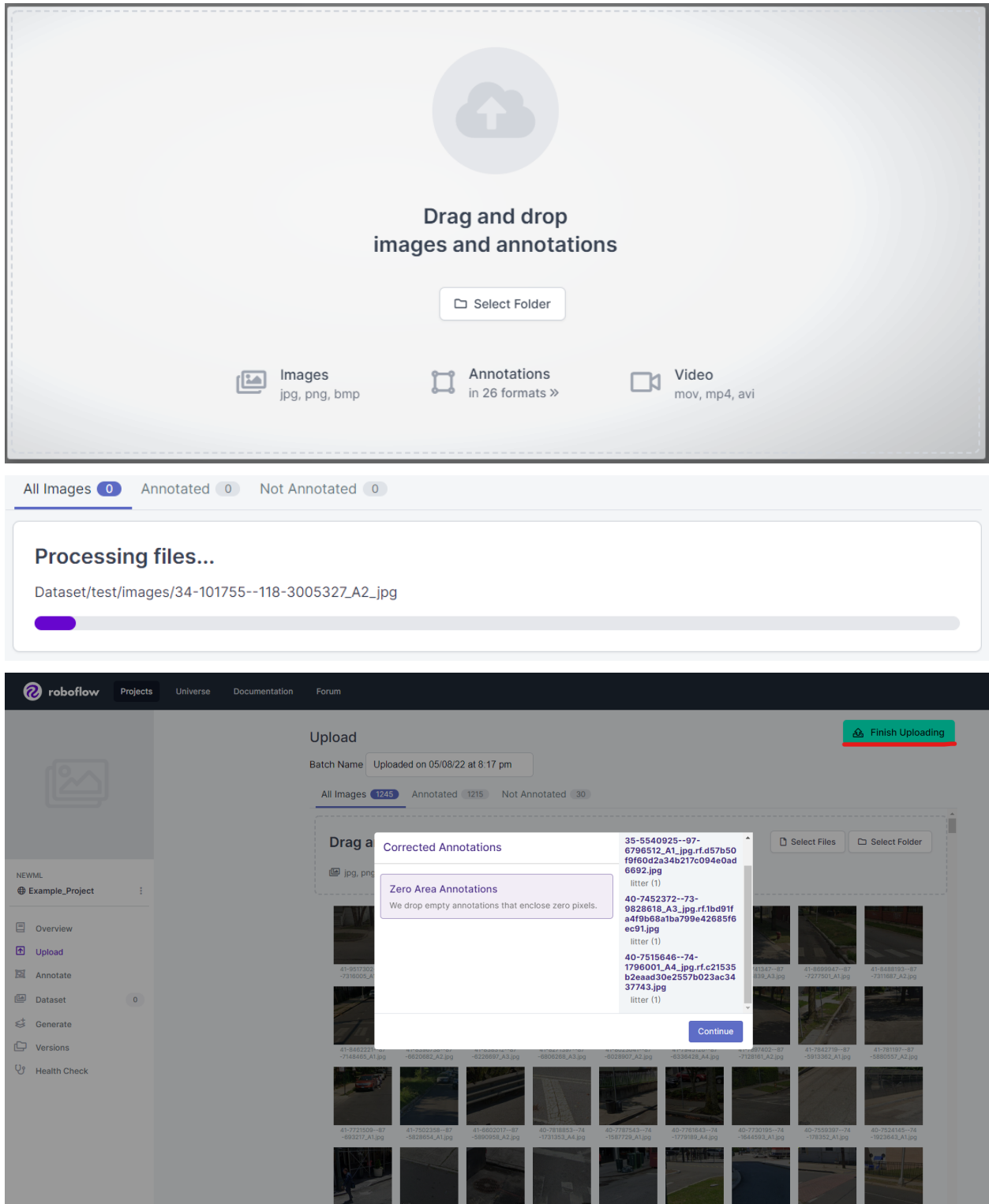
What will your model predict? 

Litter

Cancel

Create Public Project

## 5: Upload the files downloaded from Github into your project



The image shows the Roboflow web interface for uploading a dataset. The top section is a large gray area with a cloud icon and the text "Drag and drop images and annotations". Below this is a "Select Folder" button. At the bottom of this section are three icons: "Images" (jpg, png, bmp), "Annotations" (in 26 formats >>), and "Video" (mov, mp4, avi).

Below the upload area, there is a progress bar and a status bar. The status bar shows "All Images 0", "Annotated 0", and "Not Annotated 0". The progress bar is labeled "Processing files..." and shows a progress bar for the dataset "test/images/34-101755--118-3005327\_A2.jpg".

The bottom section shows the Roboflow dashboard. The "Upload" tab is active, showing a batch name "Uploaded on 05/08/22 at 8:17 pm". The status bar shows "All Images 1245", "Annotated 1215", and "Not Annotated 30". A modal window titled "Corrected Annotations" is open, showing a list of annotations with their IDs and labels. The annotations are:

- 35-9540925--97-6796512\_A1.jpg.rf.d57b50f9f60d2a34b217c094e0ad6692.jpg (litter (1))
- 40-7452372--73-9828618\_A3.jpg.rf.1bd91fa4f9b68a1ba799e42685f6ec91.jpg (litter (1))
- 40-7515646--74-1796001\_A4.jpg.rf.c21535b2ead30e2557b023ac3437743.jpg (litter (1))

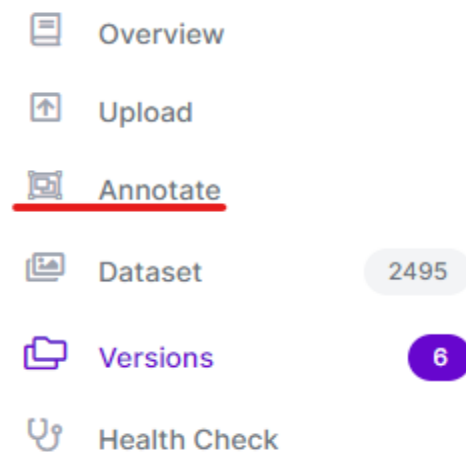
The modal window also includes a "Continue" button.

Once these steps are complete, you will be able to use the dataset created by the Sushi Team in your workspace.

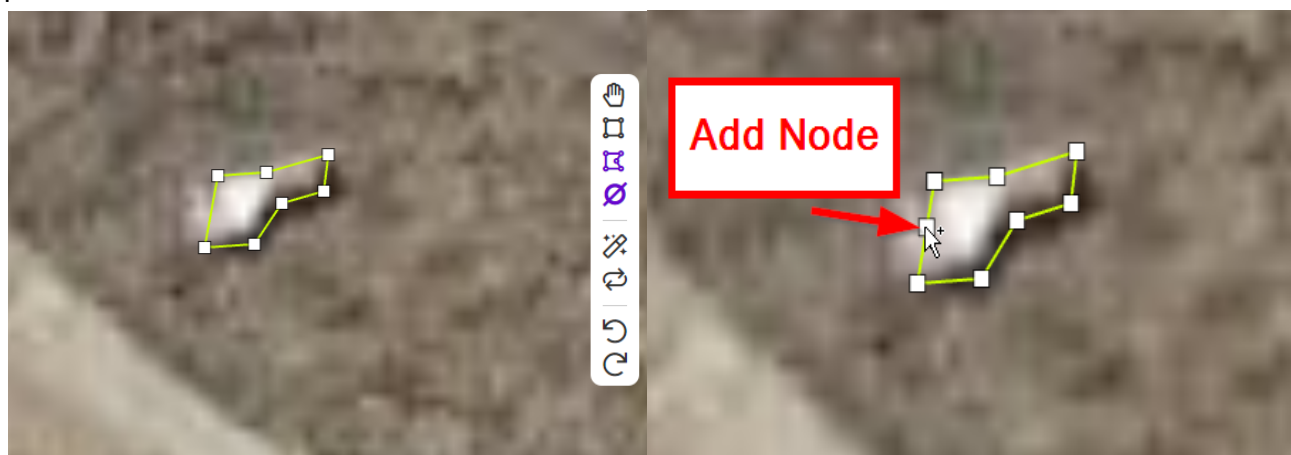
## Our Annotation Process:

If you plan to add more images and annotations, we encourage you to use a style and format that works best for you. If you would like to create annotations that correspond with those in our dataset we recommend the following process:

Once you are viewing the project, select “Annotate” from the list of options on the left hand side.



When annotating with Roboflow, there are a number of tools on the right hand side of the screen. For this project we chose to use the polygon tool. This tool works like any other polygon drawing tool insofar as you create a shape by selecting points



In our annotations we strove to draw as closely to the edges of a litter object as possible since many points can be added to a shape, highly detailed annotations can be made.

In the event that there were no litter objects in an image we simply selected the “Mark Null” tool on the toolbar

