

AI for Healthcare: Task 3

Analysis of CXR Dataset: Skin

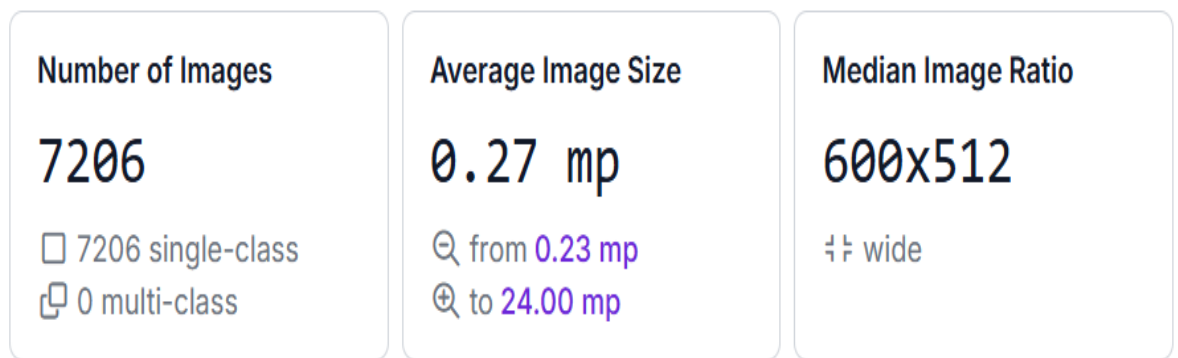
- Types of Images:

medical skin images showing different types of skin conditions or lesions. 2D colour photos of skin areas with different diseases and conditions.

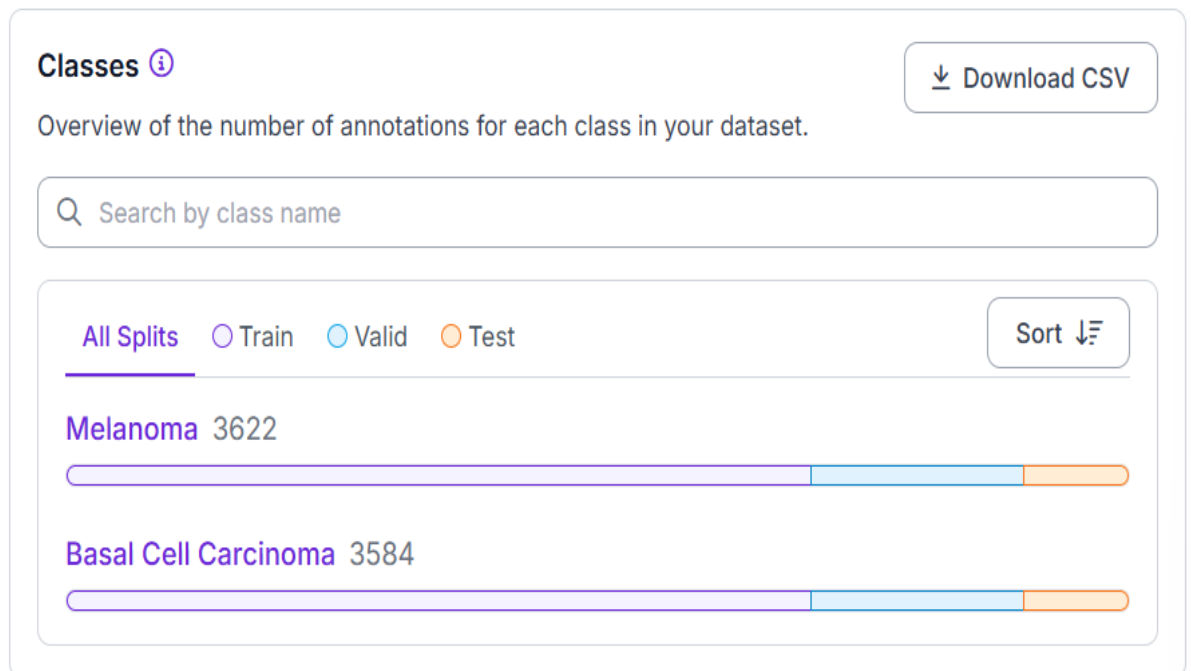
- Number of Samples, Classes and Splits:

As per the analytics on Roboflow, the following is the data:

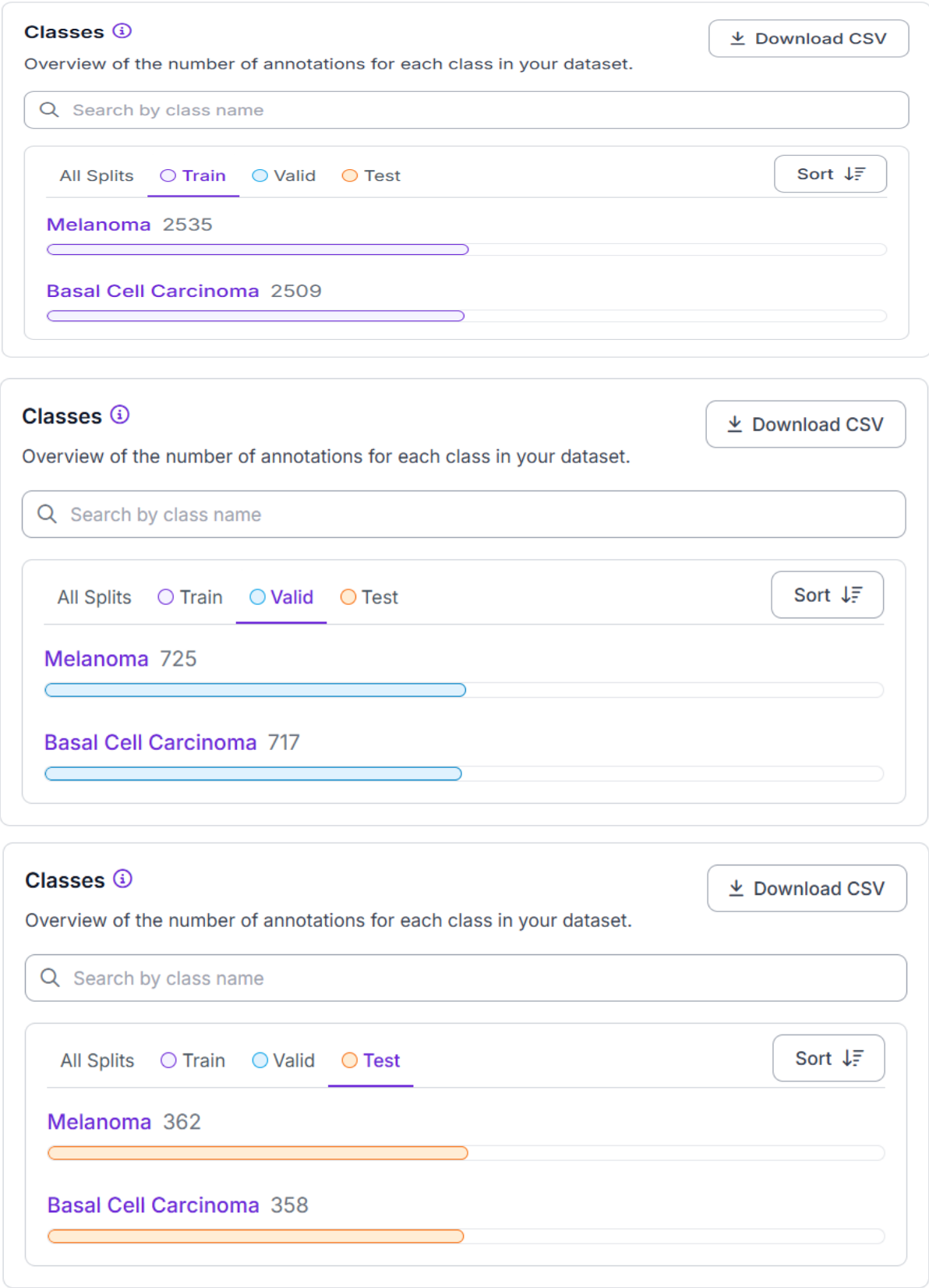
The total number of images in the dataset is 7206.



These are split into two classes as per the image below:



The dataset is split into training, Validation, and testing sets as follows:



That is, there are 5044 images in the training split, 1442 in the validation split, and 720 images in the test split.

But viewing the dataset section shows this thing, which you can see if you download the dataset locally:

v1

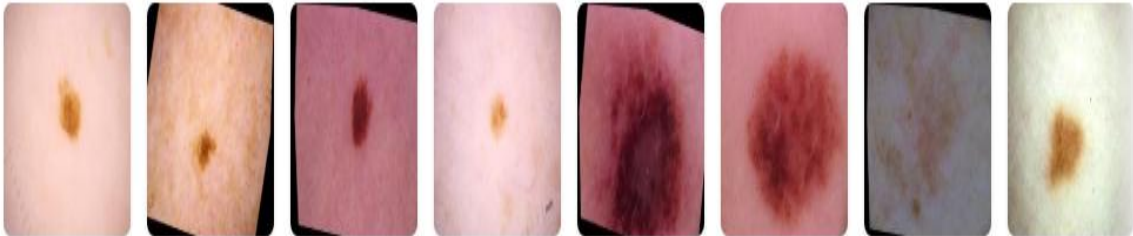
2025-04-12 12:05pm

Generated on Apr 12, 2025

Download Dataset

12250 Total Images

[View All Images →](#)



Dataset Split

TRAIN SET

82%

10088 Images

VALID SET

12%

1442 Images

TEST SET

6%

720 Images

Preprocessing

Auto-Orient: Applied

Resize: Stretch to 640x640

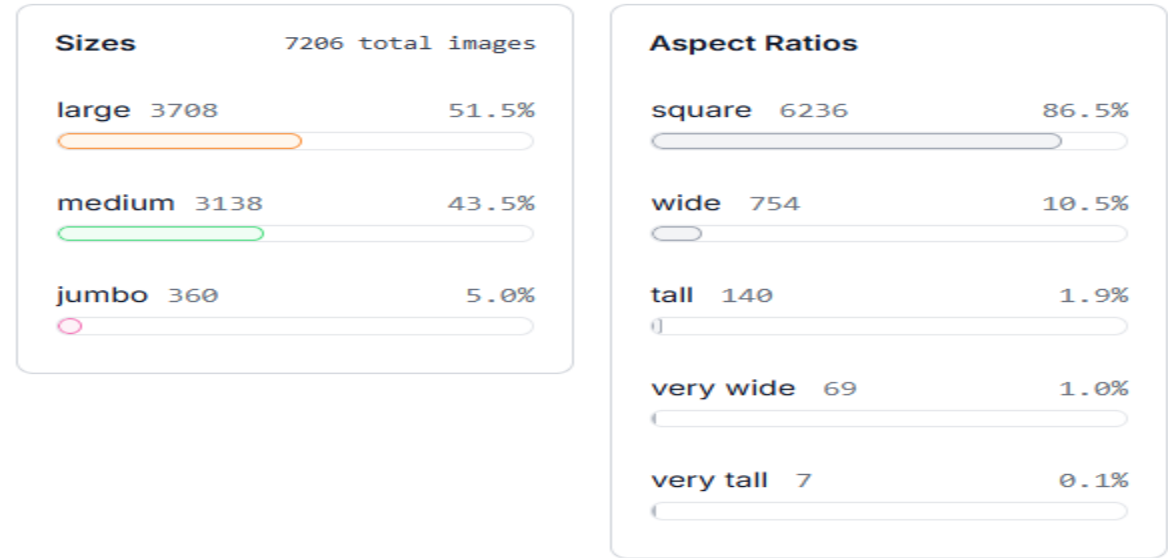
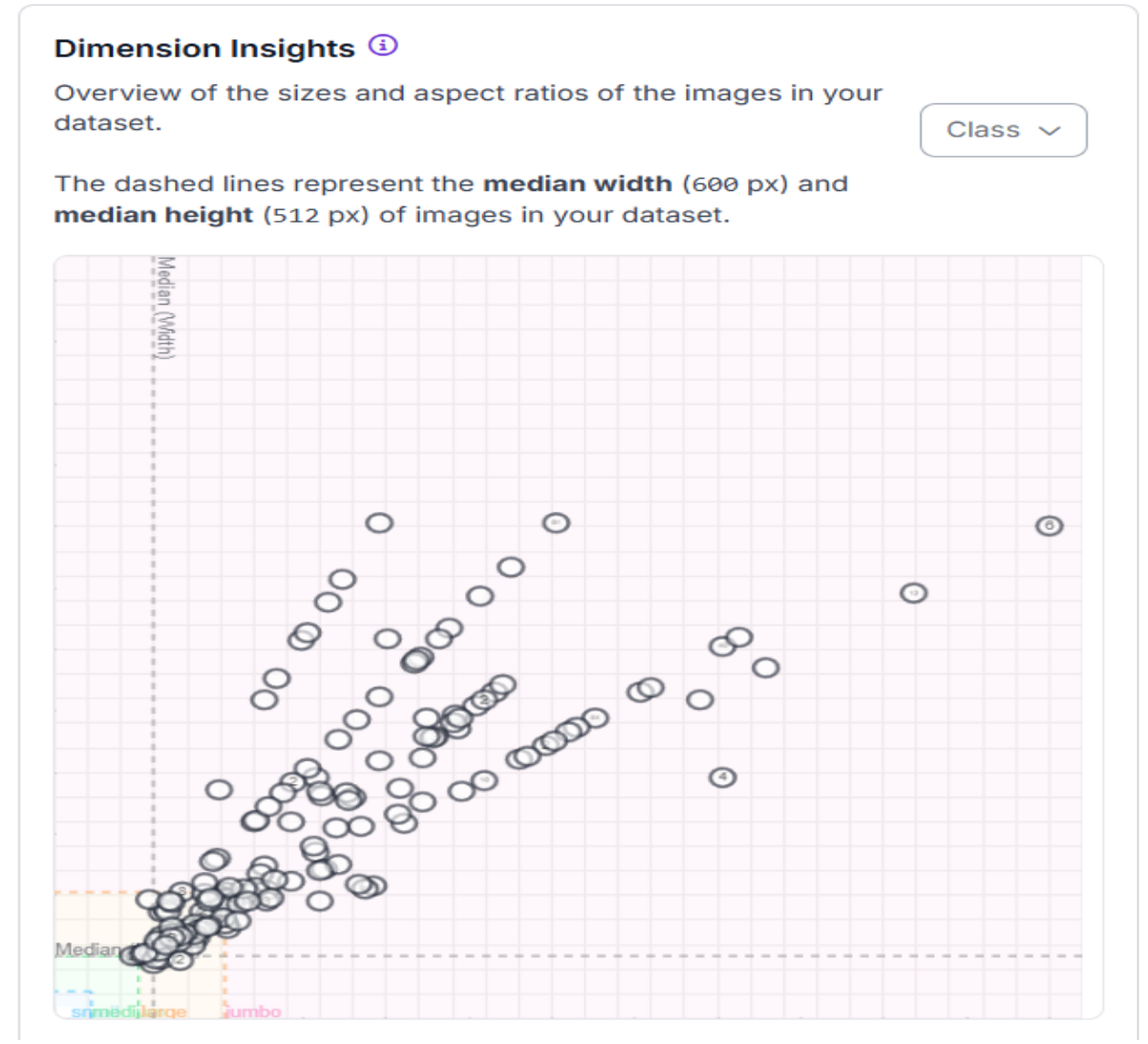
Augmentations

Outputs per training example: 2

Rotation: Between -15° and +15°

Shear: ±10° Horizontal, ±10° Vertical

- Dimension insights:



According to the split pattern, there are comparable images of each class in each split, and in total, there are also. Hence, there may be a lower chance of class imbalance.