**Dice Score:** To evaluate how our model is doing on a semantic segmentation task we can use a dice score. The Dice Coefficient is 2 \* the Area of Overlap (between predicted masked area and true masked area) divided by the total number of pixels in both images.

Shape

Description automatically generated

The formula is given by:

Text

Description automatically generated with low confidence

where X is the predicted set of pixels and Y is the ground truth.

* The Dice coefficient is defined to be 1 when both X and Y are empty. The leaderboard score is the mean of the Dice coefficients for each image in the test set.
* [Here's](https://towardsdatascience.com/metrics-to-evaluate-your-semantic-segmentation-model-6bcb99639aa2) an interesting article for further read!

https://www.kaggle.com/code/yerramvarun/understanding-dice-coefficient/notebook