



Neural Networks

Data Augmentation



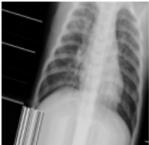
Discord Link in Description

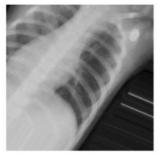


What is Data Augmentation?

- Get more data with greater variance and differences
- Reduce overfitting











Data Augmentation in Keras

ImageDataGenerator Class

```
tf.keras.preprocessing.image.ImageDataGenerator(
 featurewise center=False,
 samplewise center=False,
 featurewise std normalization=False,
 samplewise_std_normalization=False,
 zca whitening=False,
 zca epsilon=1e-06,
 rotation range=0,
width_shift_range=0.0,
height_shift_range=0.0,
brightness range=None,
 shear range=0.0,
 zoom range=0.0,
 channel shift range=0.0,
fill mode="nearest",
cval=0.0,
horizontal flip=False,
vertical flip=False,
rescale-None,
preprocessing function=None,
data_format=None,
validation_split=0.0,
dtype=None,
```