

Technology

- Python
- · Libraries:
 - Tensorflow building and training the neural network model
 - OpenCV image processing
 - Scikit-Learn data splittting
 - NumPy handling arrays and numerical data
- Hardware
 - Used GPU for faster training



- Set consists of 11 different weather conditions
- Each image is resized to 180x180
- Testset is 20% of whole dataset
- Data augmentation

Dew



Fog/Smog



Frost

Glaze















Snow



Model





Latest results

Thank you for your attention

Sources:

- https://www.kaggle.com/datasets/jehanbhathena/weather-dataset
- https://pyimagesearch.com/2018/12/31/keras-conv2d-and-convolutional-layers/
- https://www.tensorflow.org/install/pip