

Resources

1. Intro to CNNs

- **Title:** “Convolutional Neural Networks For Beginners”
- **Summary:** A friendly introduction explaining how CNNs interpret visual patterns through convolutional filters, pooling, and feature hierarchies. Ideal for students new to deep learning.
- **Link:**
<https://towardsdatascience.com/convolutional-neural-networks-for-beginners-c1de55eee2b2/>

2. Model Architectures

- **Title:** “Models and Pre-Trained Weights”
- **Summary:** Official PyTorch documentation detailing pretrained architectures, expected input sizes, and usage examples for MobileNetV2 and EfficientNetV2.
- **Link:** <https://pytorch.org/vision/stable/models.html>

3. Original Weather Classification Study

- **Title:** “Detection of Weather Events in Optical Satellite Data Using Deep CNNs”
(Li & Momen, 2021)
- **Summary:** The foundational research paper for this dataset, describing the five weather classes, the preprocessing pipeline, and the baseline accuracy (92%) that our project compares against.
- **Link:** <https://doi.org/10.1080/2150704X.2021.1978581>