**AI Assessment Report**

**Task 1:**

A simple baseline model is implemented having an encoder-decoder architecture model and training + evaluation script on NYU Depth V2 (available in TFDS → <https://www.tensorflow.org/datasets/catalog/nyu_depth_v2>, so TensorFlow is probably better way to complete this assessment; but if you would prefer PyTorch, feel free to pick any Depth Estimation dataset that you may find). The model architecture should not be sophisticated or very complex, so feel free to pick any tiny architecture that should work from your point of view. The same for the training config and optimizer to use, but please demonstrate how to use different optimizers and callbacks, in particular learning rate scheduler.

**Bibliographic Research**

The top 3 approaches that I found out after some research are:

1. Depth Anything

Paper: [*https://arxiv.org/abs/2401.10891*](https://arxiv.org/abs/2401.10891)

Github: [*https://github.com/LiheYoung/Depth-Anything*](https://github.com/LiheYoung/Depth-Anything)

1. ZoeDepth

Paper: [*https://arxiv.org/abs/2302.12288*](https://arxiv.org/abs/2302.12288)

Github: [*https://github.com/isl-org/ZoeDepth.git*](https://github.com/isl-org/ZoeDepth.git)

1. DepthFormer

Paper: [*https://arxiv.org/abs/2203.14211*](https://arxiv.org/abs/2203.14211)

Github: *https://github.com/zhyever/Monocular-Depth-Estimation-Toolbox/tree/main/configs/depthformer*