

Image Processing for Computer Vision

Session 1



collected

Topics

- About The Course
- About Me
- Introduce Yourself

About The Course

Image Processing

- Environment setup
- Image representation (Terminologies)
- Image Thresholding
- Convolution and filtering
- Histograms and Contrast Adjustment
- Geometric Transformations
- Edge Detection
- Contour Detection

Tensorflow

Pytorch

Model Designing, Building, Training, Fine-Tuning

- Classification
- Detection
- Self Supervised Learning
- Denoising
- Super Resolution
- Segmentation
- Diffusion
- Contrastive Learning

About Me

Md. Manuaruzzaman

AI Engineer & Course Instructor - Innovative Skills Ltd.

Instructor - Eshikhon.com

Introduce Yourself

Name

Current position

Experience with Python and ML and rate yourself

Why computer vision? (Motivation)

Local Environment Setup

Installing python:

[On Windows](#)

[On MacOS](#)

Installing Editor and Packages:

[Environment Setup for ML and DL](#) (this works for both)

