

Project Title: Complete Guide to Digital Image Processing Tasks

Project Description: It consists of all Theory and minor tasks used in Digital Image processing with the help of NumPy, Pandas, Matplotlib, OpenCV, python experimenting on Images to draw insights from Images, Unstructured data (80% real world data).

Day 1: Teaching Task: Introduction Digit Image Processing

Coding Task: RBG plan Separation, Bitwise operations

Day 2: Teaching Task: Digital Image Fundamentals

Coding Task: Mean, Median, Gaussian filters

Day 3: Teaching Task: Image Enhancement

Coding Task: Canny and Sobel Filter

Day 4: Teaching Task: Image Restoration and Segmentation

Coding Task: Morphological operations, Histogram Equalization

Day 5: Teaching Task: Image Representation and Recognition

Coding Task: HPF and LPF Filters, Hough Transformation

Day 6: Teaching Task: Pattern Recognition and Classification

Coding Task: Face Detection using OpenCV