Computer vision Curriculum

Course Overview:

Learn A-Z everything about Computer vision From the basic to advanced.

What You Will Learn:

- Basic fundamentals of Computer vision.
- Image and video processing with OpenCV and Mediapipe libraries.
- Data augmentation and data annotation.
- CNN architecture, hyper parameter tuning and transfer learning.
- Generative adversarial networks.
- Image classification, Object detection, Image segmentation, Face recognition, Pose estimation, Face generation, Image filtering, Art and Painting generation etc.
- Project management, development and deployment.
- Web scraping techniques.
- Hands on experience in real world projects.
- Computer vision interview questions.
- Computer vision mock interview preparation.
- Helping resume creation.

Requirements:

- Carry your own laptop with decent configurations
- Knowledge about Python programming language
- Machine learning and Deep learning concepts
- Familiar with TensorFlow and Pytorch frameworks

Syllabus:

Section	Topic
1	**Introduction of course**
2	**Introduction of Computer Vision**
3	**Image Processing with OpenCV**
4	**Video Processing with OpenCV**
5	**Working with Mediapipe**
6	**Data Augmentation**
7	**Data Annotation**
8	**Introduction of Convolutional Neural Network (CNN)**
9	**Transfer Learning**

10	**Object Detection**
11	**Image Segmentation**
12	**Generative Adversarial Network (GANs)**
13	**Additional knowledge**