BLACKBUCK-ANURAG FDP-Program Syllabus

Session 1: Neural Network Fundamentals (Day 1)

- Deep learning introduction
- Linear Classification
- Loss functions
- Optimization
- Back propagation
- Multi-layer perceptron
- Neural Networks

Session 2: Python Refresher (Day 1)

- Understand Jupyter notebook
- Data types & structures
- Image operations
- Display images and plots

Session 3: Convolutional Neural Network (Day 2)

- Convolutions
- Pooling operation
- Filter, Stride, Padding
- Hardware & Software Activation functions
- Exercise on Image recognition

Session 4: Object Detection with pretrained model (Day 3)

- Model development steps
- Pretrained models
- Transfer learning (Introduction)
- Exercise on Object detection

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