COURSE TABLE OF CONTENTS

Face Recognition and Detection

OEM: Koenig Original • Duration: 2 Days (16 hrs)

COURSE MODULES & TOPICS

Module 1: Introduction to Face Detection and Computer Vision
- Overview of face detection and recognition
- Basics of computer vision

Module 2: Image Acquisition and Preprocessing
- Image acquisition techniques
- Image preprocessing steps
- Face image analysis

Module 3: Face Detection Methods
- Haar Cascades approach
- DNN-based face detection

Module 4: Facial Features and Recognition Fundamentals
- Facial feature extraction
- Face embeddings
- Recognition fundamentals

Module 5: OpenCV and Python Implementation
- Implementing face detection in OpenCV
- Python programming for face recognition

Module 6: Dataset Preparation and Model Evaluation
- Preparing datasets for face recognition
- Model evaluation techniques
- Measuring accuracy

Module 7: Real-Time Face Detection
- Face detection using camera input
- Face detection in video streams

Module 8: Privacy, Ethics, and Responsible Use
- Privacy and consent considerations
- Bias in face recognition
- Security and responsible use

Module 9: Hands-on Labs and Practical Activities
- Face detection on images
- Webcam face detection
- Image preprocessing exercises
- Face recognition workflow demonstration
- Project implementation

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