



1 LEARN

2 CERTIFY

3 ENGAGE

4 COMPETE

COMPUTER VISION

Computer Vision Applications



COURSE OUTLINE

Module 01 | Introduction to Computer Vision

Module 02 | Image Processing Fundamentals

Module 03 | Practical Implementation

Module 04 | Object Detection and Recognition

Module 05 | Image Segmentation

Module 06 | 3D Vision and Depth Estimation

Module 07 | Advanced Topics in Computer Vision

Module 08 | Practical Projects and Case Studies

Module 09 | Final Project

Introduction to Computer Vision

- Overview of Computer Vision
- Basics of Image Formation

Image Processing Fundamentals

- Image Preprocessing
- Image Transformation
- Practical Implementation

Feature Detection and Matching

- Edge Detection and Feature Extraction
- Feature Matching
- Practical Implementation

Object Detection and Recognition

- Classical Object Detection
- Modern Object Detection
- Practical Implementation

Image Segmentation

- Segmentation Techniques
- Semantic and Instance Segmentation
- Practical Implementation

3D Vision and Depth Estimation

- Stereo Vision and Depth Estimation
- 3D Reconstruction
- Practical Implementation

Advanced Topics in Computer Vision

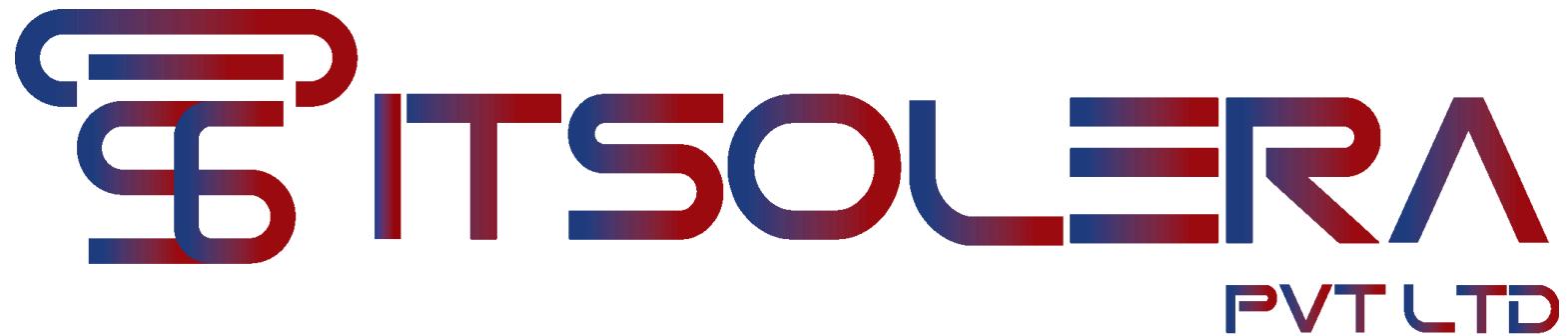
- Optical Flow and Motion Analysis
- Generative Models and Image Synthesis
- Practical Implementation

Practical Projects and Case Studies

- Project Planning and Dataset Preparation
- Model Building and Training
- Deployment and Production

Final Project

- Project Proposal
- Implementation
- Evaluation and Presentation



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