Deep Learning Foundation with Applications in Computer Vision

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Stop working around AI. Start building with it like a professional who knows their tools. This intensive 4-day programme equips you with practical deep learning and computer vision skills to help you handle real image data, build classification and detection models, strengthen your technical credibility, and **accelerate your career growth.**

Master machine learning pipelines. Build CNN models with confidence. Apply object detection and segmentation to real-world problems. — Python-Based Hands-On Learning, Ideal for Developers, Programmers & Engineers.

Who Should Attend

Developers, programmers and engineers who want to apply deep learning to real business or technical problems, especially in image data, automation, quality inspection and smart applications.

Why Sign Up

Deep learning is becoming a core capability for teams building intelligent products. This programme helps participants move beyond theory into practical implementation so they can evaluate and build deep learning solutions with confidence.

What You Will Learn

1 — Python Quickstart & Image Processing Operations

Essential Python libraries, image transformation, manipulation, morphology, region processing and segmentation. Gain the practical coding and image-processing foundation needed to work confidently with computer vision data.

2 — Feature Extraction in Image Processing

Low-level and higher-level feature extraction including corners, shape and texture features. Understand how visual features are represented and prepared for machine learning workflows.

3 — Machine Learning, Deep Learning & CNN Classification

Machine learning pipeline, neural network fundamentals, convolutional neural networks, pre-trained models and image classification use cases such as wafer map pattern classification. Build and evaluate CNN-based classification solutions more confidently.

4 — Data Augmentation, Imbalanced Data & Model Improvement

Transfer learning, fine-tuning, hyperparameter tuning, batch normalization, regularization, data pre-processing and class imbalance handling. Improve model performance and make training more robust for real-world datasets.

5 — Object Detection, Segmentation & Applied Use Cases

Object detection approaches such as R-CNN, YOLO and SSD, plus localization and segmentation frameworks including U-Net and Mask-RCNN. Select suitable approaches for detection, localization and segmentation problems in practice.

Practical & Hands-On

Real-world tools using Python, NumPy, pandas, scikit-learn, TensorFlow and Keras through guided workshops and exercises.

Highly Applied

Workshops and hands-on exercises covering image classification, detection, segmentation and real automation use cases.

Immediate Career Value

Walk away with working knowledge of ML pipelines, CNN architectures, transfer learning, and detection frameworks ready to apply.

Leave with exposure to Python-based machine and deep learning tools, hands-on understanding of image classification workflows, awareness of detection and segmentation frameworks, and stronger credibility in AI and computer vision development.

Ready to build future-ready AI capability and start applying deep learning with confidence? Enroll your team in this high-impact 4-day programme and turn practical skills into real workplace solutions.

Inhouse and public run options available. Contact us for pricing and scheduling.
Pre-register to secure your seat today.

In Contact us email azli.ismail@eliteindigo.com or **WhatsApp 6012 705 5594 (Aisha) or visit www.kredenzaadigital.com/eliteindigoprogram**