

AI for Image Understanding

Course Summary

Description

This course addresses the need for smart software for image understanding.

Topics

- AI overview
- Image processing elements
- Image Processing with TensorFlow and Keras

Audience

This course is intended for software architects and engineers

Prerequisite

The prerequisites for this course are:

- Familiarity with any programming language
- Be able to navigate Linux command line
- Basic knowledge of command line Linux editors (VI / nano)

Duration

Three Days

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Course Outline

- I. *AI overview*
 - A. A brief history of AI
 - B. Types of AI systems
 - C. Training machine learning models
 - D. Applying models for prediction
 - E. Demos and Labs

- II. *Image processing elements*
 - A. A brief history of AI
 - B. Types of AI systems
 - C. Training machine learning models
 - D. Applying models for prediction
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- III. *Image Processing with TensorFlow and Keras*
 - A. Google democratization of AI with TensorFlow
 - B. Types of neural network (Perceptron, CNN) and their use
 - C. Image processing with TensorFlow
 - D. Use cases and labs