

Developing AI Inference solutions with Vitis AI Platform

Dates: 26th June to 27th June 2025 (Live Online sessions – 10am to 1pm)

Description:

This course describes how to use the Vitis™ AI development platform. The emphasis of this course is on:

- Illustrating the Vitis AI tool flow
- Utilizing the architectural features of the Deep Learning Processor Unit (DPU)
- Optimizing a model using the AI quantizer and AI compiler
- Utilizing the Vitis AI Library to optimize pre-processing and post-processing functions
- Creating a custom platform and application

Duration:

- 2 Days (6 Hours – 3 hours/day – 10am to 1pm)

What do I gain?

- Illustrating the Vitis AI tool flow, including optimization and compilation
- Exploring the architectural features of the Deep Learning Processor Unit (DPU)
- Utilizing the Vitis AI Library to optimize pre-processing and post-processing functions
- Deploying a design

Pre-requisites:

- Deep learning frameworks (such as TensorFlow, Pytorch, and Caffe)
- Comfort with the C/C++/Python programming language
- Software development flow

Course Contents

Day 1:

- Introduction to the Vitis AI Development Environment
- Frameworks Supported by the Vitis AI Development Environment
- Overview of ML Concepts
- AI Optimizer, Quantizer and Compiler
- Vitis Ai Library
- Lab: Vitis AI Quantizer and AI Compiler flow, to explore the required options for these tools
- Lab: Review of Vitis Ai Runtime(VART) sample code

Day 2:

- DPU (Deep Processing Unit) architecture
- Creating a Custom Hardware Platform with the DPU Using the Vivado Design Suite Flow (Edge)
- Overview of quantization and its benefits
- Lab: Creating a Hardware Platform with the DPU using Vivado Design Suite Flow-Edge
- Lab: Use a pretrained model (e.g., ResNet50)

Course Fee: 2 days (6 Hours) – INR 11,800/- (Non-refundable, Inclusive of tax)

Last date for confirmation: 25-June-2025

Registration link: [Click to Register](#)

For assistance, contact us: +91-7795093727, +91-6366238254