



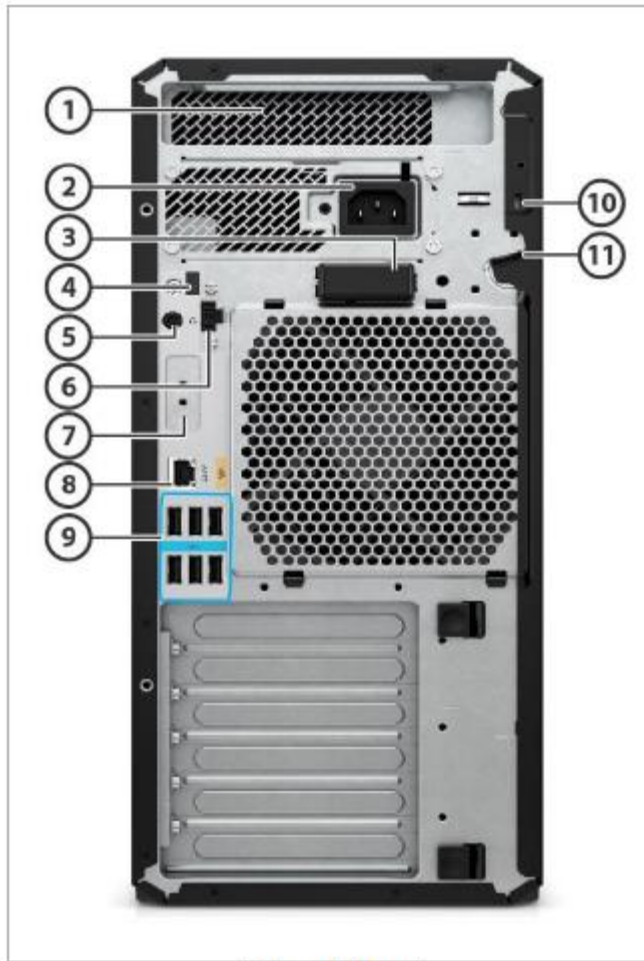
**ARTIFICIAL INTELLIGENCE TRAINER USING GPU ENABLED  
HIGH END DESKTOP WORKSTATION  
MODEL- AIDESKTOP100**



1. Integrated Front Handle
2. Power Button
3. HDD Activity LED
4. Headphone / Microphone Combo
5. USB Type -C 20 Gbps, USB 3.0, USB Type-A
6. SD Card Reader
7. 2 x External 5.25" Bay



1. Intel® Xeon® Processor
2. 4 DIMM slots for DDR5 ECC Memory
3. PCIe x16 Port
4. PCIe x4 Gen4 configurable with M.2 SSD
5. SATA Ports
6. Internal USB Ports
7. 2 Internal 3.5" Bays
8. 2 External 5.25" Bays
9. 850 W SMPS Slot
10. Front Panel



**Rear View**

1. Integrated Rear Handle
2. Power Connector
3. Provision for External Antenna
4. Rear Power Button
5. Audio In/Out
6. Manageability Port (Optional)
7. Flex I/O Module (Optional)
8. RJ-45 Integrated LAN Port
9. 6 SuperSpeed USB Type-A
10. Kensington Lock Slot
11. Padlock loop

This Desktop Work Station Computer has been designed with a view to provide practical and experimental knowledge of Artificial Intelligence (AI) and Machine Learning (ML) technology.

## **SPECIFICATIONS**

### **1. Hardware :**

1. CPU : Intel Xeon 6 Core – E2336
2. Mother Board : Gigabyte MX33
3. Memory : 4 x 16GB DDR4 ECC RAM = Total 64 GB
4. Hard Disk : 2 TB SATA HDD – 1 No and 240 GB SSD – 1 No.
5. GPU : NVIDIA RTX A4000 – 16 GB – 1 No
6. SMPS : 850W SMPS Power supply
7. Cabinet : Tower Mount Cabinet chassis
8. Mouse : Logitech USB Mouse
9. Keyboard : TVSE Gold USB Keyboard
10. Monitor : 15 Inch LED with HDMI Input

### **2. Software :**

1. Dual Boot Operating system
2. Operating System : Ubuntu OS - 22.04 and Windows 11

### **3. Pre-installed Libraries, Utilities, Tools and SDKs**

#### **A. Ubuntu OS**

1. Essentials Utilities : CUDA, cuDNN, TensorRT
2. Machine Learning Libraries : Vowpal Wabbit, XGBoost, Numpy, Scikit, Pandas and other Pylibs
3. Deep Learning Libraries : NVidia DIGITS, Tensor Flow, Caffe, Caffe2, PyTorch, Torch, Theano  
CNTK, Dockers, Containers
4. Dataset : ImageNet, CIFAR-10, KITTI, COCO, Kaggle
5. Images and Video Processing: OpenCv, OpenGL, Vulkan, CUDA, VisionWorks
6. Neural Networks : GoogleNet, MobileNet, ResNet, Inception

## **B. Windows-11 OS – Eco System – Edge Computing Platform**

1. Windows 11 Operating system based IoT ecosystem
2. Arm Cortex
3. Linux
4. Cortex-M4 IDE
5. Arduino IDE
6. Eclipse IDE
7. RTos
8. Mbed
9. OSGi Framework
10. OpenSource IOT
11. GNU Toolchain
12. Flashing Tools
13. Communication Tools

## **4. Training Programs**

1. Exclusive Training on Deep Learning
2. Training on AI-DL Machine Hardware Setup
3. Training on Docker & Container based environment installed
4. Operation of Software Tools / Utilities & Environments enabling multiuser usage environment

## **5. Admin Training :**

1. Login to AI-DL Machine as Administrator
2. Managing User accounts,
3. User Creation and Deletion
4. Hardware Parameter Visualization
5. Managing Hardware Resources
6. Training on Docker and Container
7. Checking available Docker Images
8. Adding and Managing various Libraries and Software versions in specific Docker Images
9. Backup and Restore Docker Images
10. Backup and Restore user Data to and from user space to and from server database
11. Script based management for ease of operation

## 6. User Training

1. Login to AI-DL Machine as Administrator
2. Training on Docker and Container
3. Checking available Docker Images
4. How to User Docker Images
5. Check available Libraries and Software
6. Running simple example using Digits
7. Running simple example using Jupyter Notebook
8. How to run your own example on AI-DL Machine
9. Data Management
10. Transferring DATA to and from AI-DL Computing Machine to and from user node machine
11. Manage storage space

## CLASS ROOM TRAINING – ONLINE AND OFFLINE

The training includes Single user Classroom / laboratory teaching, learning and simulation software module. The content has easy explanation of various complex topics with animation and simulation for ease of student learning. It also supports learning through videos, graphs, charts, along with mandatory rich content and theory to understand fundamental concepts, interactive learning objects, FAQ, MCQ etc. The content is supplied in digital online access or license protection.

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