

In recent time the popularity of Deep Learning is fuelled by few major factors. Recent advances in machine learning and signal/information processing research, big data problems, artificial intelligence, lowered cost of computer hardware and drastically increased chip processing

abilities with general-purpose graphical processing units or GPGPUs are few of them. The advancements in these field has enabled deep learning techniques to move up to next level by effectively exploiting complex, compositional nonlinear functions, to learn distributed and hierarchical feature representations, and to make effective use of both labelled and unlabeled data.



Skill Development

PARAM SHAVAK DL GPU

appliance shall enable the

country create and

develop skills (capability

building) to meet industry

demands, with a capacity of

solving multi-disciplinary

grand challenges in science

and engineering that employ

deep learning techniques. This shall be a boon

to the academicians/scientists/industry who

learning enabled systems to get most accurate



PARAM SHAVAK DL GPU

C-DAC's Deep Learning development - supercomputer in a box, "PARAM SHAVAK DL GPU System" exclusively designed for academic institutions and research organizations that employ deep learning techniques for

GPU accelerated machine learning applications, big data problems (computer vision, speech recognition, natural language processing, life sciences) and artificial intelligence. Equipped with x86 based latest Intel processor, 64 GB RAM, 8 TB storage, Nvidia Pascal architecture

based co-processing technologies

(P5000/P6000) and DLGPU software environment (with Deep Learning GPU accelerated libraries and SDK)enabling a new computing platform that's disrupting conventional thinking from the desk-side to the data center. With

Nvidia Pascal architecture inside, the system delivers unprecedented performance upto 25TeraFLOPS of single

precision performance for deep learning workloads and enhanced application scalability.

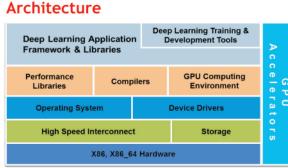








results.



Novelty

The novelty lies in its ability to provide end to end solution for deep learning technology from hardware to software ecosystem, application support either at user location or remotely at least for a period of one year from the date of installation and subsequent trainings on parallel programming technologies at regular intervals and on need/demand.

प्रगत संगणन विकास केंद्र CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

सी-डैक इनोवेशन पार्क, स. न. 34/ब/1, पंचवटी, पाषाण, पणे – 411008, भारत C-DAC Innovation Park, S. No. 34/B/1, Panchavati, Pashan, Pune - 411008, India फ़ोन / Tel: +91-20- 25503547 / 323, फैक्स / Fax : +91-20 -2569 4084 Website: www.cdac.in email: paramshavak@cdac.in