



PARAM Utkarsh Activity Report – Dec'2023



A. PARAM Utkarsh Usage:

SN	Node	% of utilization	Reserved usage	Total
1	CPU	66.94%	23%	89.94%
2	GPU	38.65%	30%	68.65%
	Total			Average of both CPU and GPU = 79.295%

B. PARAM Utkarsh Total users:

478

SN	Academics	No., of Users
01	ADE	2
02	Amrita	1
03	BICPU	1
04	External EDA Tool Users	9
05	ICAR	1
06	IIITB	3
07	IIITS	1
08	IIM Bangalore	1
09	IISC Bangalore	1
10	IISER Pune	2
11	IIT Delhi	1
12	IIT Hyderabad	1
13	IIT Madras	1
14	IITA	6
15	IITK	2
16	Kannur University	1
17	LRDE	1
18	Madura College	1
19	MAHE	4
20	NAL	2
21	CSIR – NBRI	1
22	NIMBMG	1
23	NIT Rourkela	1
24	NITK	20
25	Pondicherry University	1
26	VSSC	2



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SN	MSME /Startups	No., of Users
01	ARMS4AI	4
02	Avesthagen	1
03	BCD	1
04	Digite	1
05	Flnoseq	1
06	Gleam Innovation	1
07	iTNT Hub	1
08	Laurus Bio	1
09	Lifebytes	1
10	Orthoquant	1
11	Phramadem	1
12	RedGreenBlue	1
13	Shrikant Nanomaterials	1
14	TeOra	2
15	Tridiagonal	1
16	Zeus	1
17	Nuclei Health	1
SN	Workshop users	No., of users
01	AI Hackathon	1
02	COEP Workshop	1
03	DTU Workshop	20
04	EDA Tool Workshop	9
05	FLT Workshop	5
06	Goa University Workshop	1
07	HIPC Workshop	2
08	IIT R Workshop	2
09	MAHE Workshop	55
10	Think Parallel Workshop	45
11	WC Workshop	35
12	HPC Workshop	2
13	IIT Dharward Workshop	10
14	User Workshop	45
SN	C-DAC Internal	
01	C-DAC Pune	55
02	C-DAC Bangalore	98
03	C-DAC Chennai	2
04	C-DAC Hyderabad	1



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Users created	Organization	Comments
aryar	Amrita Vishwa Vidyapeetham, Bengaluru	Academics
shrikantsc	Shrikant Nanomaterials Research Pvt. Ltd., Nagpur	Startup
samirv	NBRI, Lucknow.	Research institute
kartikeyc	Lifeytes, a Health-Tech	Startup

Users deleted/reject	Organization	Comments
NONE	NONE	NONE

c. Total number of Jobs: 6570

SN	Organization	No., of Jobs
01	Academics	1650
02	MSMEs	49
03	Workshop Users	450
04	C-DAC Users	4421
	Total	6570

D. PARAM Utkarsh Cluster status:

Total Number of Nodes: 99

SN	Node	Reserved
01	CPU	79
02	GPU	3
03	HM	17

Sl. No	Name	No. of Nodes	Reservation ID	Duration
1	Hierarchical MPI collectives in HPC	57 CPU, 7 HM	iiitb	4 hours
2	Created by CDAC PUNE	1 GPU	gpu_test	2 days
3	LLM models in multi-node multi-GPU mode	2 GPU	janakich	2 days



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4	Created by CDAC PUNE	22 CPU, 10 HM	testing	3-11:29:17
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E. PARAM Utkarsh Revenue Generation total:

₹ 34,52,875.30

SN	Organization	Amount	comments
1	Internal NSM Project*	₹ 23,59,855	Without GST
2	External	₹ 10,81,862.94	Without GST
3	MSME	₹ 10,145.04	Without GST
4	Workshop**	₹ 1,012.32	Without GST
	TOTAL	₹ 34,52,875.30	Without GST

Internal NSM Project*

- NSM Urban Modelling project
- A HPC software suite for seismic imaging to aid oil and gas exploration
- AI for cyber security

Workshop**

- Capacity-building program under the C-HUK project