

One-Week Faculty Development Program On Deep Learning and Machine Learning Applications in Computer Vision

Under the banner of
Electronics and ICT Academy at National Institute of Technology, Patna and
Coordinated by
Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur & National Institute of Technology, Patna
22nd August to 28th August, 2020



Chief-Patron

Prof. Anjila Gupta
Vice Chancellor, GGV, Bilaspur
Prof. P.K. Jain
Director, NIT, Patna

Patron

Prof. T.V. Arjunan
Dean (SoS (E&T)), GGV, Bilaspur

Coordinators

Dr. Mukesh Kumar, NIT Patna

Dr. Alok Kumar Singh, GGV, Bilaspur

Co-coordinators

Dr. Manish Shrivastava, GGV, Bilaspur

Organized by

Department of Computer Science & Engineering, SoS (E&T), Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, C.G., India

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Electronics and ICT Academy, National Institute of Technology Patna, India.

Supported by

Ministry of Electronics and Information Technology, MeitY, Govt. of India.

About GGV Bilaspur

Guru Ghasidas Vishwavidyalaya, is a Central University of India, located in Bilaspur C.G. State, established under Central Universities Act 2009, No. 25 of 2009. Formerly called Guru Ghasidas University (GGU), established by an Act of the State Legislative Assembly, was formally inaugurated on June 16, 1983. GGU is an active member of the Association of Indian Universities and Association of Commonwealth Universities. Situated in a socially and economically challenged area, the university is appropriately named to honor the great Satnami Saint Guru Ghasidas (born in 17th century), who championed the cause of the downtrodden and waged a relentless struggle against all forms of social evils and injustice prevailing in the society. The University is a residential cum affiliating institution, having its jurisdiction spread over Bilaspur Revenue Division of the state of Chhattisgarh.

About NIT Patna

National Institute of Technology, Patna is the 18th National Institute of Technology created by the Ministry of H.R.D. Government of India after rechristening the erstwhile Bihar College of Engineering Patna on 28.01.2004. The Institute is situated on the south bank of holy river Ganges behind Gandhi Ghat (where the ash of father of the Nation, Mahatma Gandhi was offered in the river Ganges). The Institute imparts high level education training, research and development in science, engineering technology and humanities along with high quality education and values at UG, PG and Ph.D. level. At present, the Institute offers courses in six major technical disciplines viz. Architecture, Civil Engineering, Computer Science & Engg., Electrical Engg., Electronics & Communication Engg. and Mechanical

Engg. It also consists of well-established departments of Physics, Chemistry, Mathematics and Humanities and Social Sciences.

Electronics and ICT Academy

Ministry of Electronics and Information Technology, Government of India has instituted seven Electronics and Information & Communications Technology (ICT) Academies of which, the academy of NIT Patna is one. The Academy at NIT Patna aims to design and organize basic as well as specialized training programmes in niche areas of electronics and ICT for the development of required knowledge base, skills and tools to equip the teaching community with better knowledge and understanding.

Objective of the Program

Deep learning is a subset of machine learning in artificial intelligence (AI) that has networks capable of learning unsupervised/supervised from data that is unstructured or unlabelled. It imitates the workings of the human brain in processing data and creating patterns for use in decision making. Deep learning is achieving state-of-the-art results across a range of difficult problem domains like self-driving cars, Healthcare, computer vision, Automatic Machine Translation, and Finance, etc.

- The proposed FDP provides an opportunity to discuss and address the experimental, theoretical work and methods in solving problems.
- How Machine Learning and Deep Learning Works
- How to apply Machine Learning and Deep Learning Tools and Techniques to solve the problems
- Exchange and cross-fertilize their ideas, in the fields of Deep Learning and Machine Learning.
- Working in soft computing, machine learning, deep learning and artificial intelligence.
- Hands on training on Machine Learning and Deep Learning tools and techniques are to be applied for different application

Topics to be covered

- Overview of Machine Learning Techniques
- Supervised Vs Unsupervised Learning
- Linear Regression, Decision Trees, KNN, Random Forests
- Bayesian Networks, SVM
- Clustering :K Means, C-Means, Agglomerative Clustering
- Machine Learning Application in Computer Vision (Example: Video Surveillance and Medical Imaging)
- Introduction to Deep Learning, Neuron, Threshold Logic, Perceptron Learning Algorithms
- Deep Learning, CNN, 3D-CNN, Googlenet and RNN
- Convolution Neural Network with Medical Image database
- Medical image analysis using Deep Learning in MATLAB /Python
- Object Tracking and Multi-view activity recognition using Deep Learning in MATLAB /Python
- Deep Learning applications in Text Classifications using MATLAB /Python
- Hands-on Session using Python (sklearn, Tensorflow, Keras etc) / MATLAB.

Resource Persons

Internationally acclaimed faculty members from premier institutions like IIT, NIT and Central Universities.

One-week FDP includes

One week Training will be taken by one Industrial Expert with the experience of 6-8 years in the industry and has delivered more than 1000+ sessions in India and abroad. The training hour is 5-6 hours/ each day. Mode of training is Instructor-led live online

- 40 Hours Instructor-led live online Hands-on base d learning & Interactive Query Session.
- Soft copy of study material, Training PPT's & Projects code
- Participants will get recorded sessions after completion of training.

Who Can Participate

Faculty members of UGC/AICTE recognized Universities and Engineering colleges all over India, Research scholars (PhD only), students and Industry personals, however priority will be given to the faculty members.

Registration Fee

- **Faculty/ Research Scholar (PhD): Rs. 500/**
- **Students: Rs. 500/-,**
- **Industry and others: Rs. 1000/-**

Registration Process

1. Registration fee will be paid though online mode, the account details for this purpose is

Account Name: NIT Patna
Account No.: 50380476798
IFSC Code: ALLA0212286

2. Link for registration:
<https://tinyurl.com/yyrnsv8g>
3. The brochure of the program may be downloaded from the Institute website
<http://www.nitp.ac.in/ict/>
4. Only Online registration will be accepted and Last date of registration: 21.08.2020 (till 14.00 PM)
5. Before making the (online) payment, please check the availability of link for Registration and after making the payment; complete the registration process as soon as possible.

Total -100 seats and the selection will be done on first-cum-first-serve basis. PDF file of online filled registration form with proof of registration fee paid will be sent through email to **Dr. Alok Kumar Singh (E-mail: ggvfdp@gmail.com)**

Faculty Development Program

on

Deep Learning and Machine Learning Applications in Computer Vision

22nd to 28th, August, 2020

REGISTRATION FORM

1. Name (block letter):
2. Gender:
3. Caste:.....
4. DOB:.....
5. Designation
6. Organization:
7. Address for communication:
.....
.....
Pin code: Ph. No.:
- E-mail:
8. Highest Academic Qualification:
9. Specialization:
10. Experience (in years):
(a) Teaching: (b) Industrial:
11. Aadhar No:.....

DECLARATION

I do hereby agree to abide by the rules and regulations of the FDP.

Place:

Date:.....

.....
Signature of the Applicant

Expected Schedule: Plan for each day

	10:00 AM to 12:00 PM	12:00 PM to 01:00 PM	01:00 PM to 02:00 PM	02:00 PM to 05:00 PM
22-08-2020	Overview of Machine Learning Techniques, Supervised Vs Unsupervised Learning	Regression- Linear regression, Polynomial regression, Linear Regression	L U N C H	LAB EXPERIMENT (Introduction to Google Colab and ML using Python)
(Saturday)	(Dr. Ashish Khare)	(Dr. Ashish Khare)		(Dr. Chandramani Sharma)
23-08-2020	Decision Trees, KNN	Principal Component Analysis (PCA),		LAB EXPERIMENT (Decision Trees, KNN and Other Classifiers, K-Fold Validation, Performance Metrics)
(Sunday)	(Dr. Ashish Khare)	(Dr. Ashish Khare)		(Dr. Chandramani Sharma)
24-08-2020	Bayesian Networks, SVM	Clustering: K Means		LAB EXPERIMENT (Bayesian Networks, SVM)
(Monday)	(Prof. Rajeev Srivastava)	(Prof. Rajeev Srivastava)		(Mr. Rajat Khurana)
25-08-2020	AIML Applications in Rural Development and Agriculture	Threshold Logic, Perceptron Learning Algorithms		LAB EXPERIMENT (Clustering :K Means)
(Tuesday)	(Mr. Kapil Tomar)	(Dr. Om Prakash)		(Dr. Chandramani Sharma)
26-08-2020	Machine Learning Application in Computer Vision (Example: Video Surveillance and Medical Imaging)	Image and Video Segmentation and Classification		LAB EXPERIMENT (Tensorflow 2.0 and Keras DL, Layers, Optimizers, Losses, Compile and Fit the Models)
(Wednesday)	(Dr. Ashish Khare)	(Mr. Rajat Khurana)		(Dr. Chandramani Sharma)
27-08-2020	Deep Learning, CNN	Convolution Neural Network with Medical Image database		Some Interesting Use Cases for Deep Learning
(Thursday)	(Mr. Neeraj Varshney)	(Dr. Abhishek Singh)		(Dr. Vibhav Singh)
28-08-2020	Object Tracking and Multi-view activity recognition for Intelligent Video Surveillance	LAB EXPERIMENT (Human Object Tracking and Activity recognition using DL in Python)		RNN, LSTM,,
(Friday)	(Dr. Manish Khare)	(Mr. Rajat Khurana)		(Dr. Chandramani Sharma)
Total Hour	14	7	1	18

Total Theory Hours: 24 Hours
 Total Practical: 16 Hours
Total FDP Hours: 40 Hours



REPORT

Deep Learning & Machine Learning Applications in Computer Vision

Date: 22-08-2020 to 28-08-2020,
Department of Computer Science & Engineering,
SoS (E&T), Guru Ghasidas Vishwavidyalaya
(A Central University), Bilaspur, C.G., India

NATIONAL INSTITUTE OF TECHNOLOGY, PATNA

One-Week Faculty Development Program On Deep Learning & Machine Learning Applications in Computer Vision

Deep Learning & Machine Learning Applications in Computer Vision 5-Days NIT-PATNA sponsored workshop was conducted from 22nd to 28th August 2020 in which around 82 participants from different parts of the country participated.

The speakers for the 5-day workshop on “**Deep Learning & Machine Learning Applications in Computer Vision**” were:

Dr.Ashish Khare



Designation: Associate Professor, Computer Science at University of Allahabad



Ashish Khare is working as an Associate Professor in Computer Science at University of Allahabad, India. His area of expertise is Image Processing, Computer vision, Machine Learning, and wavelet based applications. He is actively working in area of Machine Vision, Image and Video analysis from last 20 years. He did his PhD in area of Medical Imaging. He did his post-doctoral research from Gwangju Institute of Science and Technology, Korea. He has successfully supervised 08 Ph.D. students in area of Machine Vision. He has carried two research projects on development of surveillance systems. Currently he is PI of one collaborative (India-Heidelberg University) RTG-Big Data project, in which he is dealing with early detection of neuro degenerative diseases and Human action recognition & behavior understanding. He has published more than 125 papers in SCI/Scopus indexed journals and Conference proceedings. He has more than 20 years’ of experience in post-graduate teaching, course development and research in the subjects related to Machine Vision and Machine Learning. He has served Secretary of IETE Allahabad center.

Dr.Manish Khare




Designation: Professor Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar

Manish Khare is affiliated with Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar, Gujarat, India as Assistant Professor. Dr. Manish has more than 6 years teaching and research experience. He received his D.Phil. degree in Computer Science from University of Allahabad, India in 2015. He received M. Tech. degree in Computer Science and Engineering from CDAC, Noida, India, in year 2009, and M. Sc. in Computer Science from University of Allahabad, India in year 2006. As a Post-Doctoral Fellow, he worked in Department of Electrical Engineering and Computer Science, Gwangju Institute of Science and Technology, Gwangju, Republic of Korea in 2016-2017. Dr. Manish has authored and co-authored more than 70 papers in Reputed Journals, National and International Conferences. Dr. Manish also working as active reviewers for reputed professional Journals and

	<p>Conferences. Dr. Manish is having an active association with different societies and academies around the world. He made his mark in the scientific community with the contributions and widely recognition from honourable subject experts around the world. Dr. Manish has received several awards for the contributions to the scientific community. Dr. Manish is active member of IEEE, Computer Society of India, ACM. His Research interests include Image and Video Processing, Computer Vision, Machine Learning, and applications of wavelet Transforms</p>
Dr.Om Prakash	
	<p>Designation: Assistant Professor Hemvati Nandan Bahuguna Garhwal University (HNBGU), Srinagar (Garhwal)</p> <p>Dr Om Prakash received PhD (Computer Science) degrees from University of Allahabad, India 2014 respectively. He has worked in academics and industry as faculty and research scientist. From 2015 to 2016, he worked as a postdoctoral researcher in Gwangju Institute of Science and Technology, Gwangju, South Korea. Currently, he is working as Assistant Professor in Hemvati Nandan Bahuguna Garhwal University (HNBGU), Srinagar (Garhwal), India. He has published over 40 papers in International journals and conference proceedings. His research interests include image and video processing, computer vision, wavelet transforms and multisensory data fusion, Machine Learning, Thermography, Medical Image Processing.</p>
Dr.Shailendra Kr Sharma	
	<p>Designation: Associate Professor Dept. Of History, KKPG College, Etawah</p> <p>Dr. Shailendra Kumar Sharma is a certified life coach, meditation expert, motivational speaker and a seasoned academician. He comes with a rich experience of about two decades in counselling, meditation and higher education teaching.</p> <p>He is working as Associate Professor & Head, Dept. Of History, KKPG College, Etawah. He is Certified Law of Attraction & life coach from mind , body soul law of attraction school. He has published many research papers, 3 books and is the editor in chief of one international research journal.</p> <p>He has delivered several invited talks, meditation and counselling sessions at various forums, nationally and internationally. For his contribution, he has received many accolades and awards.</p>
Dr.Vibhav Prakash Singh	
	<p>Designation: Assistant Professor MNNIT Allahabad</p> <p>Dr. Vibhav Prakash Singh is currently working as Assistant Professor in the Department of Computer Science and Engineering at MNNIT Allahabad. He has earned his Ph.D. in Computer Science and Engineering from BHU Varanasi (India), M. Tech. (CSE) from IIIT Gwalior (India) and B.Tech (IT) from UPTU, Lucknow (India). He has approx. 11 years of experiences in teaching/research of UG (B. Tech.) and PG level courses as a Lecturer/Assistant Professor in various academic /research organizations. He is an active reviewer and board member of various International Journals and Conferences. He has contributed more than 40 research papers in International Journals, and Conferences. His working research areas are Image Processing, Computer Vision, and Data Mining.</p>
Dr. Kapil Tomar	

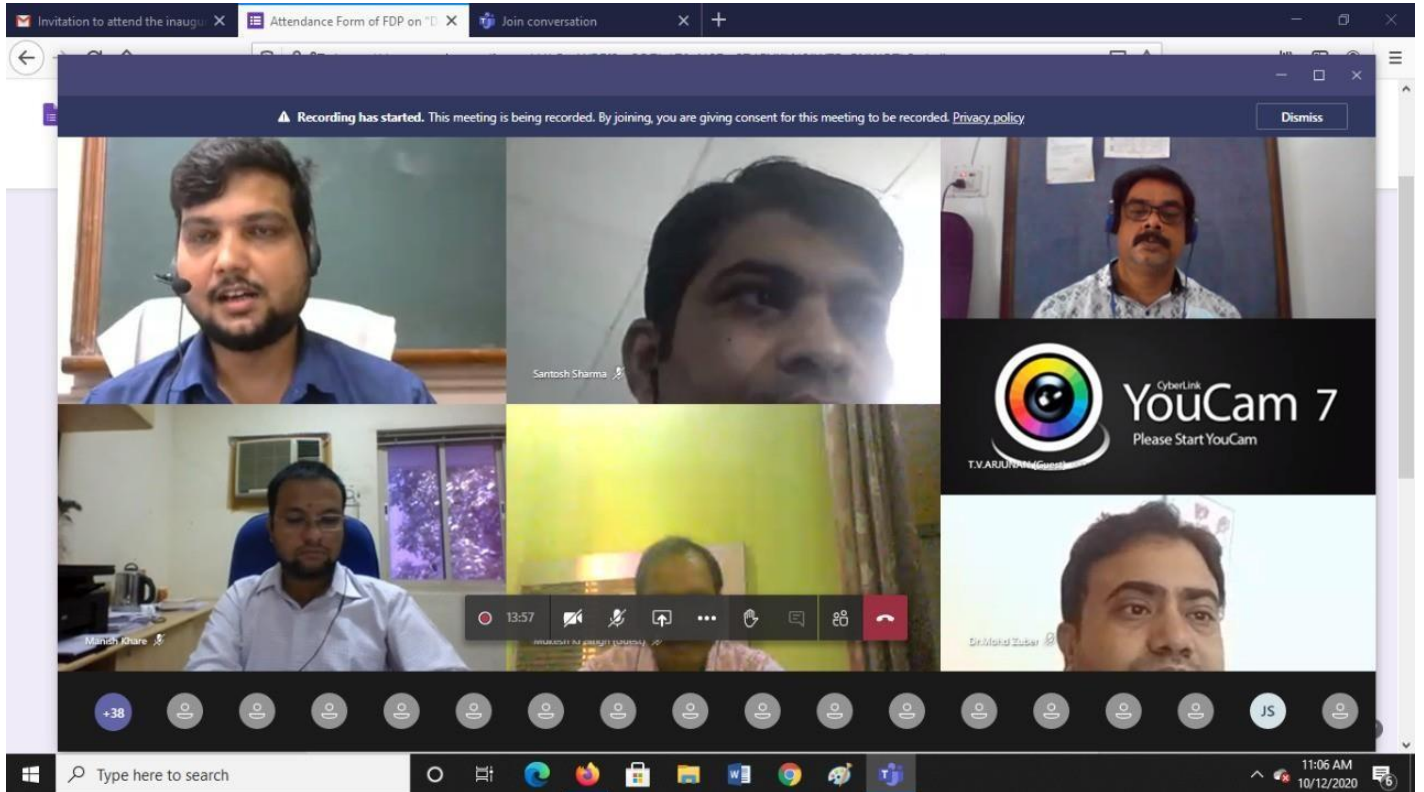
	<p>Designation: Professor IIT Delhi</p> <p>He spent more than a decade in industry and academia before joining IIT Delhi as Doctoral Research Fellow. He did his Bachelors and Masters in Computer Science Engineering.</p> <p>He worked with HCL, Noida at various positions and received recognitions for adding value to the clients. He worked with many other companies and academic institutions in past, he is currently working with Prof VM Chariar at IIT Delhi at CRDT- a place which is known for its innovations and producing unicorn startups for nation building. Mr Tomar is working to provide sustainable solutions for rural development with the amalgamation of technology. He is volunteer for Unnat Bharat Abhiyaan- an project originated from IITD and now proliferated across India.</p> <p>He had organized 2 national conferences and 3 Faculty Enablement Program (FEP) with Infosys Chandigarh.</p> <p>His areas of interest include Algorithms, Data Science, and Sustainable Development for Rural communities.</p> <p>He has published various research papers, and articles with reputed publishers. He enjoys exploring new places, reading and networking with people</p>
<p>Korra Sathya Babu</p>	
	<p>Designation: Assistant Professor NIT Rourkela</p> <p>Dr. Korra Sathya Babu is working as a Assistant professor in Department of Computer Science and Engineering National Institute of Technology Rourkela. He completed his MTech and PhD from NIT Rourkela. He is working as a Assistant professor in NIT Rourkela since 2008. He is having more than 50 research paper in peer reviewed journal and conferences. He is coordinator of the Data Science specialization for MTech in NIT Rourkela. He has supervised 3 PhD scholar and currently supervising 9 PhD scholar in NIT Rourkela. His area of interest is Data Science, Natural Language Processing and Data Privacy.</p>
<p>Mr.Chandramani Sharma</p>	
	<p>Designation: Professor Department of Informatics, University of Petroleum & Energy Studies, Uttarakhnad</p> <p>He is having more than a decade of experience in teaching and indstry. He did is Masters in Computer Science from DAVV Indore and got into the doctoral bandwagon at Indian Institute of Technology, Delhi.</p> <p>He started his career as J2EE developer with Syscom India. Having associated with a couple of pretigious organizations in past, he is currently working in Department of Informatics, University of Petroleum & Energy Studies, Uttarakhnad. He has mentored many successful startups and has served as one of the founding Directors for CDD Global Solutions. He has convened 3 successful international Hackathons with academia and industry collaborators such as IBM, STPI, Cardiff University, Intel etc.</p> <p>His areas of interest include Data Analytics, Machine Learning, Rural Development, Entepreneurship and Sustainable Design.</p> <p>He has published research papers, books and articles with reputed publishers. He enjoys reading, writing and networking with people.</p>
<p>Mr.Neeraj Varshney</p>	

	<p>Designation: Assistant Professor Computer Engineering and Applications Department of GLAITM</p> <p>Dr. Neeraj Varshney is presently working as an Assistant Professor in the Computer Engineering and Applications Department of GLAITM. He has vast experience in the field of Teaching and Research. He has published more than 20 research papers in reputed International and National Journals. His areas of research include computer vision, time series data analysis, machine learning and deep learning</p>
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The schedule of the workshop was as below-

Event Schedule					
Dates 10.00AM-11.30AM	Dates 10.00AM-11.30AM	Dates 10.00AM-11.30AM	Dates 10.00AM-11.30AM	Dates 10.00AM-11.30AM	Dates 10.00AM-11.30AM
22.08.2021 (Monday)	Registration and Inaugural Session	<i>Break</i>	Session 1 Overview of Data Science	<i>Break</i>	Session 2 Getting started with Python for DS
	Session 3		Session 4		Session 5
25.10.2021 (Tuesday)	Pandas and Numpy for Data Preprocessing	<i>Break</i>	Data Visualization with Matplotlib	<i>Break</i>	Introduction to Seaborn
	Session 6		Session 7		Session 8
26.10.2021 (Wednesday)	Machine Learning and Its Types	<i>Break</i>	ML Regression and Classification Hands-on	<i>Break</i>	K-Fold Validation and Performance Metrics
	Session 9		Session 10		Session 11
27.10.2021 (Thursday)	Text processing and various representations	<i>Break</i>	Using NLTK for Text Analytics	<i>Break</i>	Introduction to Deep Learning
	Session 12		Session 13		Session 14
28.10.2021 (Friday)	Keras and Tensorflow in Practice	<i>Break</i>	CNN and Image Classification	<i>Break</i>	Health and Happiness Assessment and Validation Session (04:30 onwards)

The inauguration was held on 22nd August 2020 online at 10:00 am. Chief Guest of the program was Prof. Anjila Gupta, Honorable Vice Chancellor, Guru Ghasidas University, Bilaspur. Screenshots of the inaugural function are as below.



The list of participants was:-

S.N	Name	Organization	Mobile	Email id
1	ABHIJAT KUMAR SHUKLA	KALINGA UNIVERSITY, RAIPUR	9003972720	abhijatshkl@gmail.com
2	AKHILENDRA PRATAP SINGH	Indian Institute of Technology (Banaras Hindu University)	9446600936	apsingh.rs.ece14@itbhu.ac.in
3	AMAR JINDAL	NIT Patna	9840755410	jindal.it18@nitp.ac.in
4	AMIT BAGHEL	GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR	9989302035	amitbaghel1978@gmail.com
5	AMIT KUMAR	NATIONAL INSTITUTE OF TECHNOLOGY PATNA	9947766669	amitk.phd18.cs@nitp.ac.in
6	ANITA KHANNA	GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR	9893916826	anitadhawan0308@gmail.com
7	ANITA TANDAN	Uttam Memorial College	9827471404	tandan.in@gmail.com
8	ANUJ NOGJA	MASTER CONTROL FACILITY, ISRO	7661987873	anuj.nogja@gmail.com
9	ANWESHA MITRA	Expleo India	9445220789	anwasha.t2908@gmail.com
10	ARBIND KUMAR JHA	KENDRIYA VIDYALAYA SALT LAKE NO-1	9755510440	arbind001@gmail.com
11	ARCHANA BALMIK	NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA	9826339264	archanabalmik1392@gmail.com
12	ASHWIN T S	ST JOSEPH ENGINEERING COLLEGE VAMANJOOR, MANGALURU	9584657952	ashwin.tudur@gmail.com
13	BALAMURUGAN MUNISAMY	VIT	9424240083	bala.munisamy@gmail.com
14	BHARATHGOUDA NAGANAGOUDA	Gandhitatva Adharitha Girls residential school, Kurugodu	9098505754	bharath.kalasapur@gmail.com
15	BHUSHAN PRATAP DHAIRYA	Govt. College Barpali	9981237678	bhushan.dhairya@gmail.com
16	BRAJENDRA KUMAR	GOVERNMENT WOMEN'S POLYTECHNIC BOKARO	9993373778	brajendrak.phd19.cs@nitp.ac.in
17	BRIJESH KUMAR	D.P.VIPRA P.G.COLLEGE BILASPUR CHHATTISGARH INDIA	9818410671	brijeshk838@gmail.com
18	CHARANJIT SINGH	SWAMI SARVANAND INSTITUTE OF MANAGEMENT & TECHNOLOGY	9926453721	zcharan123@gmail.com
19	CHETNA SINHA	GOVERNMENT ENGINEERING COLLEGE RAIPUR	9981111983	sinha.gecret@gmail.com
20	CHIRANJIT PAL	UNIVERSITY OF KALYANI	7087799154	chiranjit.pal.14@gmail.com
21	DEVENDRA KUMAR SINGH	GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR	9177176312	devendra.singh170@gmail.com
22	DIPANJAN MISHRA	GURU GHASIDAS VISHWAVIDYALAYA	9434069154	dipanjanggv@gmail.com
23	DR PIYUSH LOTIA	CSV TU BHILAI	9827099815	lotia_piyush@rediffmail.com
24	DR ROHIT RAJA	GURU GHASIDAS VISHWAVIDHAYALA BILASPUR	9575111882	drrohitraja1982@gmail.com
25	DR. ABHILASHA DEVEN MISHRA	G. S. MANDAL'S MAHARASHTRA INSTITUTE OF TECHNOLOGY, AURANGABAD	9985714279	abbhilasha@gmail.com
26	DR. CHANDRA MOULI P.V.S.S.R.	CENTRAL UNIVERSITY OF TAMIL NADU	9827969690	chandramouli@cutn.ac.in
27	DR. MD RASHID MAHMOOD	GURU NANAK INSTITUTIONS TECHNICAL CAMPUS, HYDERABAD	9827180073	er.mrashid@gmail.com
28	DR. SANDEEP KUMAR	GOVERNMENT PG COLLEGE NEW TEHRI, TEHRI GARHWAL	9827475115	drskbahuguna@gmail.com
29	DR. SHEKHA RAI	NIT Rourkela	7406818178	rai.shekha@gmail.com
30	DR. TESSY TOM	ST. FRANCIS COLLEGE	8299388393	tessy.tom2020@gmail.com
31	DR. UPASANA SINHA	J.K.INSTITUTE OF ENGINEERING, CSV TU	9827179525	upasana.sihna@gmail.com
32	DR.SMT. SUNILA EKKA	GOVERNMENT LOCHAN PRASAD PANDEY COLLEGE SARANGARH DISTT RAIGARH CHHATTISGARH STATE	9425280114	dr.smt.sunilaekka@gmail.com
33	DR.VIDYAPRIYA V	EASWARI ENGINEERING COLLEGE	9943479763	vidyapriya804@gmail.com

34	GARLAPATI VENKATA SAI AJIT KUMAR	Great Learning	9923001999	ajith.garlapati@gmail.com
35	GATTU ABHILASH	GURUNANAK INSTITUTIONS TECHNICAL CAMPUS	9709952175	gattuabhilash1@gmail.com
36	HARIKRISHNA PONNAM	VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN	8377976909	ponnamhk@gmail.com
37	HERA SHAHEEN	PATNA WOMEN'S COLLEGE	7200652437	heras.phd19.cs@nitp.ac.in
38	JAGAN J	GALGOTIAS UNIVERSITY	7000559696	janyfriends57@gmail.com
39	JAGPREET KOUR DARIYA	SHRI SAI COLLEGE OF ENGINEERING AND TECHNOLOGY, BHADRAWATI	8197842512	jagpreet1709@gmail.com
40	K ASHWINI	NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA	9780713477	ashwinikamakshi@gmail.com
41	K RAMYA LAXMI	Sreyas Institute of Engineering and Technology, Hy	9718495588	ramya.kunta@sreyas.ac.in
42	KHUSHBU VERMA	Department of computer science & Engineering CHAURAS CAMPUS HNBGU (Central university) SRINAGAR, GARHWAL UTRAKHAND	8310616610	khushbuverma422@gmail.com
43	KUMARI P	EXCEL ENGINEERING COLLEGE	9486648966	pkumarisadha@gmail.com
44	MAGULURI SUDEEP JOEL	Phoenix Tech Solutions	9705825766	msudeep.joel@gmail.com
45	MD RIZWAN AHMAD	JAMIA MILLIA ISLAMIA	8383894326	rizwanahmadrizwan@gmail.com
46	MOHIT BHATIA	INDIAN SPACE RESEARCH ORGANISATION	9035387768	mohitbhatia.ece@gmail.com
47	MR. RAM RATAN KHUNTE	DR. B. S. P. COLLEGE GHARGHODA, RAIGARH	9302791879	ramratan.skt10@gmail.com
48	MRINMOY ROY	Lovely Professional University	9886345519	mrroy2612@gmail.com
49	NAHID SAMI	Freelancer	8862948868	nahidsami187@gmail.com
50	NANDA RAGHUNATH WAGH	GOVERNMENT POLYTECHNIC PUNE	09890042948	nrwagh17@gmail.com
51	NEERAJ KUMAR	IIT(ISM) DHANBAD	9006527102	kumarneeraj.mit@gmail.com
52	NEHA IJARDAR	DR. BHAWAR SINGH PORTE COLLEGE GHARGHODA RAIGARH(C.G.)	9479049757	nehaijardar2104@gmail.com
53	NIHAL PANDEY	SAMRAT ASHOK TECHNOLOGICAL INSTITUTE (Engineering College), Vidisha (M.P.)	8458948777	nihalpandeyji@gmail.com
54	NIKHIL KUMAR VANJARI	VAAGESWARI COLLEGE OF PHARMACY	7893453432	nikhil71311@gmail.com
55	NISHANT BEHAR	NISHANT BEHAR	8770253237	nishant.itggv@gmail.com
56	NISHI YADAV	GURU GHASIDAS VISHWAVIDYALYA A CENTRAL UNIVERSITY BILASPUR	8103371508	nishidv@gmail.com
57	NITESH NAVNATH NAIK	GOA COLLEGE OF ENGINEERING,FARMAGUDI PONDA GOA	9823562097	nn@gec.ac.in
58	NIVETHA S	PERIYAR UNIVERSITY	9629040946	amsnive@gmail.com
59	POONAM YERPUDE	Government Engineering College , Raipur	9516912345	poonam.nikhilesh@gmail.com
60	PRASHANT VAISHNAV	GURU GHASIDAS UNIVERSITY BILASPUR	9131922305	prashanth.vaishnav@gmail.com
61	PRAVIN KESHAV PATIL	SSBT's College of Engineering and Technology Bambhori Jalgaon	9403384826	patilprvin555@gmail.com
62	PRIYAM PANDEY	UNIVERSITY OF ALLAHABAD	7007651846	priyam.pandey23@gmail.com
63	PURNIMA KUMARI SRIVASTAVA	RANCHI WOMEN'S COLLEGE, RANCHI	6201982898	purnima.srivastava04@gmail.com
64	PUSHPENDRA KUMAR CHANDRA	GURU GHASIDAS VISHWAVIDYALAYA	9098505754	pushpendrachandra@gmail.com
65	RAKSHA PANDEY	GURUGHASIDAS VISHWAVIDYALAYA	09893129840	rakshaggu@gmail.com
66	RAMYA.D	SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY	9566099604	ramya.devasahayam@gmail.com
67	RUCHI AGRAWAL	GEC,Raipur	9111007611	er.ruchiag1991@gmail.com
68	SAKSHAM GUPTA	JECRC University	9602373054	sakshamgupta.5765@gmail.com
69	SAMEERA KHAN	AMITY UNIVERSITY CHHATTISGARH	7389377104	skhan@rpr.amity.edu
70	SANTOSH KUMAR SATAPATHY	PONDICHERRY ENGINEERING COLLEGE,PUDUCHERRY	9348650912	santosh.satapathy@pec.edu
71	SATISH KUMAR NEGI	GURU GHASIDAS VISHWAVIDYALAYA	9575111882	skn.ggv@gmail.com
72	SATYAJIT PANIGRAHY	National Institute of Technology Rourkela	8093338893	satyajit.panigrahy007@gmail.com

73	SELVARAJA	Park college of engineering and technology	9894618913	cellva.84@gmail.com
74	SHANU KUTTAN RAKESH	CHOUKSEY ENGINEERING COLLEGE BILASPUR	7987347151	shanu.kuttan28@gmail.com
75	SONALEE PATEL	INDIAN SPACE RESEARCH ORGANISATION	08765267798	sonaleecs0103@gmail.com
76	SUBHAJIT ROY	Tata Consultancy Services Ltd.	9704163066	subhacs08@gmail.com
77	SUHEL AHAMED	Guru Ghasidas Vishwavidyala, Bilaspur	9165678692	suhel.yusuf@gmail.com
78	SURESH MAMIDISETTI	GOVERNMENT POLYTECHNIC HYDERABAD	8686039275	sureshmamidisetti@gmail.com
79	SWATI RAVINDRA ZAMBRE	Dr. Babasaheb Marathwada Ambedkar University, Aurangabad	9860434990	srz.eltx@gmail.com
80	VIVEK KUMAR SARATHE	GURU GHASIDAS VISHWAVIDYALAYA	7773050900	viveksarathegg@gmail.com
81	YASHVARDHAN RATHI	SHRI VAISHNAV INSTITUTE OF TECHNOLOGY AND SCIENCE	9407166801	yashrathi013@gmail.com
82	YATIN KUMAR SINGH	JECRC UNIVERSITY	9068630131	yatin536@gmail.com

The screenshots of the participants taken on the closing are:-



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