AI and Data Analytics for Healthcare

AI AND DATA ANALYTICS FOR HEALTHCARE

Department of Electronics and Communication Engineering, IGDTUW, organized a two-week PM Gati Shakti AICTE ATAL FDP on "AI and Data Analytics for Healthcare" from 20th February to 03rd March 2023. in which around 32 participants from different colleges across various parts of the country, including faculty members, industry personnel, and research scholars of IGDTUW attended the FDP. It was observed that out of 44 registrations on ATAL portal, only 32 participants were actively participating in the online and offline sessions.

The speakers for the two-week AICTE ATAL FDP on "AI AND DATA ANALYTICS FOR HEALTHCARE" were:

Speaker Name	Designation/ Affiliation/ Education/ Experience
Mr. Ramdas Menon	**Education:** ● M.Tech in Chemical Engineering from IIT, Madras in 1990 ● MBA in HR from ICFAI **Experience:** ● 12 years of consulting and 18 years of corporate experience in M. N. Dastur & Co, General Electric, TVS Electronics and Pfizer. ● Senior Member of the American Society for Quality (ASQ) since July 2006
Dr. Subrahmanyam Murala	**Designation:** Associate Professor **Affiliation**: Department of Electrical Engineering, IIT Ropar, Rupnagar, Punjab, India **Education:** ● B.E. degree in Electrical and Electronics Engineering from Andhra University, Andhra Pradesh, India, in 2007 ● M.Tech. degree from the Department of Electrical Engineering, Indian Institute of Technology Roorkee, Roorkee, India, in 2009 ● Ph.D. degree from the Department of Electrical Engineering, Indian Institute of Technology Roorkee, Roorkee, India, in 2012 **Experience:** ● Post-Doctoral Researcher in the Department of Electrical and Computer Engineering at University of Windsor, Windsor, ON, Canada from July 01, 2012 to June 30, 2014 ● Associate Professor in the Department of Electrical Engineering, IIT Ropar, Rupnagar, Punjab, India.

Dr. Amitha Domalpally	**Designation:** Research Director **Affiliation:** Wisconsin Reading Center, University of Wisconsin, Madison, USA Education: MD, PhD **Experience:** ● Leads the Artificial Intelligence Research Unit within her department ● Research focus on retinal diseases and developing diagnostic artificial intelligence algorithms.
 Prof. Dinesh Kumar Vishwakarma	**Designation:** Professor **Affiliation:** Department of Information Technology, Delhi Technological University **Education:** ● Ph.D. degree in Computer Vision and Machine Learning from Delhi Technological University, New Delhi, India, in 2016 **Experience:** ● Currently a Professor with the Department of Information Technology, Delhi Technological University.
Dr. Ahlad Kumar	**Education:** ● B.Tech. degree in Electronics and Communication Engineering from Jamia Millia Islamia, New Delhi, India, in 2005 ● M.Tech. degree from ABV-IIITM, Gwalior, India, in 2005 ● Ph.D. degree from the University of Malaya, Kuala Lumpur, Malaysia, in 2016 **Experience:** ● Postdoctoral Research Fellow with Concordia University, Montreal, QC, Canada, from 2017 to 2019 ● Currently an Assistant Professor with National Forensic Sciences University (NFSU), Gandhinagar, Gujarat
 Ms. Sri Ramaswamy	**Designation:** Founder and CEO of Charlee.ai **Affiliation:** Charlee.ai, a Silicon Valley technology company **Experience:** ● More than 20 years of experience in architecting and launching business intelligence, advanced data analytics, and artificial intelligence solutions for banking and insurance industries.

Ms. Sowmya Moni	**Designation:** Director **Affiliation:** Incture Technologies, Pvt. Ltd. **Experience:** 22 years in technology marketing
Dr. Ekata Mehul	**Designation:** Director and CEO **Affiliation:** Orena Solution Pvt. Ltd. **Experience:** ● 25 years of career equally divided in Industry and Academia ● Working to set the ecosystem through technology generating Human Talent with the support of Training and Research
Dr. Abhilasha Vyas	**Designation:** Business Unit Head **Affiliation:** CloudThat Technologies, Suraj Sansthan, Jaipur **Experience:** ● 19 years of experience in Technology, Education, and Training in Information Technology.
Dr. Shelly Sachdev	**Designation:** Associate Professor, Dean Student Welfare **Affiliation:** Department of Computer Science and Engineering, NIT Delhi **Education**: PhD in Computer Science from The University of Aizu **Experience:** ● Experienced Associate Professor with expertise in Requirements Analysis, C++, Databases, Healthcare Information Technology (HIT), and Java.

Dr. Aradhana Sharma	**Designation:** Consultant Psychologist **Affiliation:** Anubhuti Clinic, Kulkarni Children's Medical Center, Paschim Vihar **Experience:** • 22 years of experience in various fields of consulting, psychology, and social work • Former consultant at Bhartiya Vidya Bhavan's Usha & Laxmi Narain Mittal Institute of management (BULMIM)
  Dr. Swati Sinha	**Education:** • Graduated from Maulana Azad Medical College, New Delhi • Post Graduation and Senior Residency from Lady Hardinge Medical College, New Delhi **Experience:** Over 20 years of experience in Obstetrics and Gynecology
Prof. Nidhi Gooel	**Designation:** Professor **Affiliation:** Indira Gandhi Delhi Technical University for Women, New Delhi **Education:** • B.E. Degree in Electronics and Communication • M. Tech. Degree in Digital Communication • Ph.D. from Indian Institute of Technology Roorkee, India **Experience:** • More than 20 years of teaching and research experience • Headed the ECE Department since May 2018 • Previously associated with Delhi Technical University (Formerly, DCE)
  Dr. Shalini Mishra	**Designation:** Consultant Pediatric Surgical Oncology, **Affiliation:** Rajiv Gandhi Cancer Institute and Research Centre **Experience:** • More than 15 years of experience in Pediatric Surgery including pediatric surgical oncology, pediatric urology, pediatric thoracic surgery, and neonatal surgery • Routinely performs surgeries for solid tumors in children and adolescents like Wilms tumor, neuroblastoma, rhabdomyosarcoma, malignant germ cell tumor, Primitive neuroectodermal tumor (Ewing's sarcoma), testicular/ ovarian tumor, hepatoblastoma, and other soft tissue sarcoma

PM Gati Shakti AICTE ATAL FDP on AI and Data Analytics for Healthcare

The schedule of the workshop was as below-

Day 1 20/02/2023	Day 2 21/02/2023	Day 3 22/02/2023	Day 4 23/02/2023	Day 5 24/02/2023	Day 6 25/02/2023
7:00-7:50 Mr. Ramdas Menon Ekaagra Solutions Tamil Nadu	7:00-7:50 Dr. Subrahmanyam Murala IIT Ropar	7:30-8:20 Dr. Amitha Domalpally University of Wisconsin, Madison, USA	7:00-7:50 Prof. DK Vishvakarma DTU, Delhi	7:00-7:50 Dr. Ahlad Kumar National Forensic Sciences University (NFSU), Gandhinagar, Gujarat.	7:00-7:50 Sri Ramaswamy Charlee.ai. San Francisco Bay Area
8:00-8:50 Mr. Ramdas Meon Ekaagra Solutions Tamil Nadu	8:00-8:50 Dr. Subrahmanyam Murala IIT Ropar	8:30-9:00 Dr. Amitha Domalpally University of Wisconsin, Madison, USA	8:00- 8:50 Prof. DK Vishvakarma DTU, Delhi	8:00-8:50 Dr. Ahlad Kumar National Forensic Sciences University (NFSU), Gandhinagar, Gujarat.	8:00-8:50 Sri Ramaswamy Charlee.ai. San Francisco Bay Area
9:00-9:30 Session 1 Interactions	9:00-9:30 Session 2 Interactions	9:10-9:30 Session 3 Interactions	9:00-9:30 Session 4 Interactions	9:00-9:30 Session 5 Interactions	9:00-9:30 MCQ

Week 2: Offline mode (9:30-5:30 pm)

Day 1 27/02/2023	Day 2 28/02/2023	Day 3 01/03/2023	Day 4 02/03/2023	Day 5 03/03/2023
9:30-11:30 Ms. Sowmya Moni Incture Technologies, Karnataka	9:30-10:30 Article 1 Discussion	9:30-1:00 Visit to NIC/PM Museum	9:30-11:30 Dr. Swati Sinha Madhukar Rainbow Children's Hospital, Delhi	9:30-10:00 MCQ
11:30-12:30 Inauguration	10:30-12:30 Dr. Shelly Sachdev NIT Delhi	1:00-2:00 Travel Back	11:30-12:30 Visit Report	10:00-12:30 Dr. Shalini Mishra Rajiv Gandhi Cancer Institute, Delhi
12:30-1:15 Lunch	12:30-1:30 Lunch	2:00-3:00 Lunch	12:30-1:30 Lunch	12:30-1:30 Lunch
1:15-3:15 Dr. Ekata Mehul Orena Solutions, Gujarat	1:30-3:30 Dr. Aradhna Sharma Anubhuti Clinic	3:00-4:00 Article 2 Discussion	1:30-3:30 Prof. Nidhi Gooel Professor, ECE Department, IGDTUW, Delhi	1:30-3:30 Reflection Journal and Feedback
3:15-5:15 Dr. Abhilasha Vyas CloudThat, Gujarat	3:30-4:45 Teaching Practice 1	4:00-5:15 Teaching Practice 2	3:30-4:45 Teaching Practice 3	3:30-5:30 Valedictory

PM Gati Shakti AICTE ATAL FDP on AI and Data Analytics for Healthcare

The inaugural ceremony of the PM Gati Shakti AICTE ATAL FDP'23 on AI and Data Analytics for Healthcare took place on February 27, 2023, organized by the Department of Electronics and Communication Engineering of IGDTUW. The department was honored to have Dr. Amita Dev, the Vice Chancellor, as the Chief Guest, and Dr. Ekata Mehul and Ms. Sowmya Moni, the Directors of WIBD India Chapter, as the guest of honor. The ceremony included the signing of an MOU with the WIBD India Chapter and the release of the FDP ATAL Booklet, making it a splendid event.

Prof. Nidhi Goeel, the coordinator of two-week AICTE ATAL FDP welcomed the participants to the program in a message that highlighted the program's objective and benefits. She expressed her excitement about providing the participants with a comprehensive understanding of how AI and data analytics are transforming the healthcare industry and equipping them with the necessary skills to leverage these technologies in their respective domains. She encouraged the participants to actively participate in all sessions and engage with their fellow participants to make the most out of the program.

In the address of Vice chancellor of IGDTUW, Dr. Amita Dev, she delivered a welcoming speech to the participants and highlighted the significance of this program, which will enable the participants to gain valuable insights into the latest advancements in AI and data analytics, and their applications in the healthcare industry. She emphasized the importance of knowledge-sharing and collaboration in advancing research and innovation, and how this program presents a unique opportunity for participants to learn from experienced faculty members and experts in the field.

The guest of honor, Dr. Ekata Mehul and Ms. Sowmya Moni, the Directors of WIBD India Chapter, began by acknowledging the importance of diversity and inclusivity in the technology industry and highlighted the significant under-representation of women in the field of data science. They spoke about the potential of AI and data analytics in healthcare and how having more women in the field would lead to a diverse range of perspectives and insights. They emphasized the importance of providing opportunities for women to develop their skills and knowledge in data science and encouraged the participants to support and mentor women in the field.

Prof. Jasdeep Dhanoa. Co-cordinator of the program, proposed the Vote of Thanks. She highlighted the University's commitment to fostering research and innovation in healthcare and also thanked the organizing committee and support staff for their tireless efforts in ensuring the program's success. Some snapshots of the inaugural ceremony are as below.

PM Gati Shakti AICTE ATAL FDP on AI and Data Analytics for Healthcare

Inaugural Ceremony and Release of PM Gati Shakti AICTE ATAL FDP booklet by Chief Guest-Honourable Vice Chancellor, Dr. (Mrs) Amita Dev on 27th March 2023

PM Gati Shakti AICTE ATAL FDP on AI and Data Analytics for Healthcare
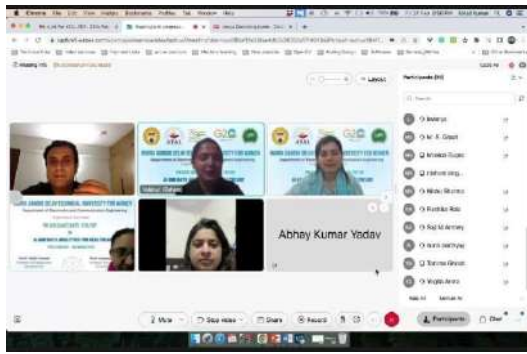
The list of participants was: -

S. N0	Name	Organization	Email Id.	Mobile
1	Dr. MD TABREZ NAFIS	Jamia Hamdard	tabrez.nafis@gmail.com	9953448275
2	Mrs. SULEKHA SAXENA	AKGEC Ghaziabad	sulekha.saxena@imsec.ac.in	9650895115
3	Dr. RAHUL JOHARI	USICT,GGSIP UNIVERSITY	rahul@ipu.ac.in	9910185349
4	Mr. Hillol Biswas	WAPCOS	hillolbiswas@wapcosindia.com	9873978781
5	Dr. CHARU AGARWAL	AJAY KUMAR GARG ENGINEERING COLLEGE, GHAZIABAD	agarwalcharu@akgec.ac.in	9891994775
6	Mr. AMUL GUPTA	Netaji Subhash University of Technology, West Campus	amulgt2@gmail.com	9599353969
7	Mr. Manoj Kumar	ABES Engineering College	manojkumar@abes.ac.in	9891491765
8	Mr. GANESHA H S	JSS Academy of Technical Education Noida	ganeshahs@jssaten.ac.in	9964944390
9	Dr. Dhanjay Yadav	Indira Gandhi Delhi Technical University for Women	dhananjayyadav@igdtuw.ac.in	9990147077
10	Mr. BHAWANAND JHA	BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, NEW DELHI	bhawanandjha@gmail.com	9716537955
11	Miss Anupama	Delhi Technological University	anupama.nsit@gmail.com	9716930416
12	Dr. Viveak Kumar Chawla	IGDTUW	vivekchawla@igdtuw.ac.in	9818104101
13	Miss Megha Dua	IGDTUW	megha053phd20@igdtuw.ac.in	8826945775
14	Miss Palak Handa	Delhi technological University	palak006mtece19@igdtuw.ac.in	8851443252
15	Mrs. MONICA GUPTA	Bharati Vidyapeeth's College of Engineering, New Delhi	monica.gupta.me@gmail.com	9873367792
16	Dr. SAJI M ANTONY	Bharati Vidyapeeth's College of Engineering	saji.antony@bharatividyapeeth.edu	9810157540
17	Mrs. Vidhi Bishnoi	Indira Gandhi Delhi Technical University for Women, Delhi	vidhibishnoi@gmail.com	8077965109
18	Mrs. Isha Malhotra	Indira Gandhi Delhi Technical University for Women	isha.malhotra2691@gmail.com	8285261600
19	Dr. Vrinda Sachdeva	ITS Engineering college	vrinda.cse@its.edu.in	9812367679
20	Mr. VARUN SANGWAN	Delhi Technological University Delhi	sangwan.varun@gmail.com	9416117030
21	Mr. Mohd Rehan Ghazi	Delhi Technological University	er.rehan.aras@gmail.com	9548283808

22	Mr. Varun Arora	Institute of Technology & Science, Mohan Nagar, Ghaziabad	varunarora.ka@its.edu.in	9643108842
23	Mrs. Smita Kansal	Institute of Technology & Science	smitakansal@its.edu.in	9650050771
24	Dr. Pooja	The NorthCap University	dr.poojasapra@gmail.com	7015938546
25	Miss MEGHA GUPTA	Ajay Kumar Garg Engineering College	meghagupta12502@gmail.com	8882652715
26	Dr. ASHISH KUMAR MOURYA	GNIOT Institute of Professional Studies	ashishkumarmourya@gmail.com	9997072797
27	Mrs. Shweta Chauhan	Mangalmay Institute of Engineering and Technology	chauhanshweta144@gmail.com	9897837066
28	Mr. ABHAY KUMAR YADAV	GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, DELHI	abhaybbdnitm01@gmail.com	8756553346
29	Mr. Vishwa Pratap Singh	Guru Gobind Singh inderprastha university, Delhi	vishwapratap.phd@gmail.com	9555678883
30	Dr. Hina Bansal	Amity University Uttar Pradesh	hbansal@amity.edu	9811099082
31	Dr. Amandeep Dhaliwal	FMS,Manav Rachna International Institute of Research & Studies	amandeep.fms@mriu.edu.in	9818010999
32	Miss KAVITA BHATT	DELHI TECHNOLOGICAL UNIVERSITY	kavitabhatt_2k20phdec510@dtu.ac.in	9717038895
33	Mrs. Sakshi Kumar	Aravali College of Engineering and Management, Greater Faridabad	sachdevasakshi8@gmail.com	7982762371
34	Mr. Nishant Singh Rana	Gurugram University	nishantrana252004@gmail.com	9996561322
35	Dr. Dr.Anita Singh	Sunder Deep Pharmacy College	anitasanitas2001@gmail.com	9450122446
36	Mrs. Somya Srivastava	ABES Engineering College	somya.srivastava0509@gmail.com	9648710515
37	Mr. VINAY SINGH	KRISHNA ENGINEERING COLLEGE	vinay.singh@krishnacollege.ac.in	8587843177
38	Dr. Dr Mamta Madan	Vivekananda Institute of Professional studies	mamta.vips@gmail.com	9953005524
39	Mr. Sunil Upadhyay	Institute of Technology and Science	sunilupadhyay@its.edu.in	7701955487
40	Mrs. DIVYA ARORA BHAYANA	Delhi Technological University	divyaa.mtech@gmail.com	9999621678
41	Mrs. Nandini Tomar	IIMT College of Engineering	tomar.nandini@gmail.com	9627990000
42	Dr. Yogita Arora	BVCOE, New Delhi	yogita.arora@bharatividyapeeth.edu	9871233070
43	Mrs. Ruchika Bala	Kumar Enterprises	ruchikabala@gmail.com	9910035075
44	Dr. Sheetal	gitarattan international business school	sheetal.chadda@gmail.com	9810331467
33	Mrs. Sakshi Kumar	Aravali College of Engineering and Management, Greater Faridabad	sachdevasakshi8@gmail.com	7982762371
34	Mr. Nishant Singh Rana	Gurugram University	nishantrana252004@gmail.com	9996561322
35	Dr. Dr.Anita Singh	Sunder Deep Pharmacy College	anitasanitas2001@gmail.com	9450122446

PM Gati Shakti AICTE ATAL FDP on AI and Data Analytics for Healthcare

The screenshots/snapshots of the event in both online and offline mode are as below: -

PM Gati Shakti AICTE ATAL FDP on AI and Data Analytics for Healthcare

We are extremely grateful to the AICTE ATAL for providing us with the opportunity to conduct a Two-week Faculty Development Program. The initiative by ATAL Academy was truly commendable, and we feel privileged to have been a part of it. We were overwhelmed by the tremendous response we received from participants for the registration, and we are happy to report that the program was a resounding success.

We received numerous compliments for the organization of the sessions, the quality of the content, and the hands-on learning opportunities that were provided. It was a truly rewarding experience for us, and we hope to continue to contribute to such initiatives in the future.