Indira Gandhi Delhi Technical University for Women
(Established by Govt. of Delhi vide Act 09 of 2012)
Kashmere Gate, Delhi - 110006

AICTE-ATAL sponsored Online One Week Faculty Development Program on
"Foundation of Data Science and Its Applications (Advanced)
(6th-10thSeptember, 2021)

Department of Electronics and Communication Engineering, IGDTUW organized AICTE-ATAL sponsored online One Week Faculty Development Program on "Foundation of Data Science and Its Applications (Advanced) from 6th- 10thSeptember, 202 I. The Elementary version of the same program was successfully held from 26th - 30 th July 2021 with a participation of 115 participants from different colleges from different pa1ts of the country. During the program various related subtopics were discussed in detail by eminent researchers, academicians and industry experts and a good learning and interactive academic environment was experienced by the participants.

In the Advanced Program there were145participants from different colleges from different pa1ts of the country which included faculty participants, industry personnel, 38 research scholars of IGDTUW , project associates, 25 post graduates and under graduate students. Resource Persons from reputed academic institutions like IIT Roorkee, IIT Ropar, IIIT Gandhinagar, Bennett University, Dhirubhai Ambani Institute of Information and Communication Technology and industries like Orena Solutions and Blazing Arrows, A1t of Living having expertise in the different relevant areas related to the program delivered the talk in the Faculty Development Program.

The list of speakers included Dr. Ahlad Kumar, Assistant Professor, DAIICT. He gave a very insightful session on "Understanding Deep Learning architectures in Natural Language Processing".He has served as the postdoctoral fellow in Concordia Un iversity, Montreal, Canada. Dr. Kumar won the prestigious Horizon Postdoctoral Fellowship at Concordia University, Canada in 2017. Dr. Kumar has focused on the development and implementation of new image priors that can provide elegant solutions for the estimation of point spread functions solving the highly ill-posed inverse problem of image restoration.Dr. Kumar holds a Ph.D. from the University of Malaya, Malaysia in 2016 . He also won the prestigious Horizon Postdoctoral Fellowship at Concordia Un iversity, Canada in 2017.

Prof. Nidhi Goel , HOD-ECE IGDT UW , spoke on two topics, one was "Data Science- An insight" and the other was "Artificial Intelligence and data science".She is working as a

Professor and Head in the Department of ECE at IGDTUW. She has done her Ph. D from IIT Roorkee: The sessions were highly interactive and informatory.Dr. Ashish from IIIT Gandhinagar had also delivered two sessions, one on "Medical Image Denoising" and the other was "Predictive Analytics in Healthcare". Both the sessions were very enlightening.Dr. Ashish Phophalia is currently working as Assistant Professor at Indian Institute of Information Technology Vadodara since 2016. He holds PhD and M. Tech. degree from DAIICT Gandhinagar. He has been working on the Medical Image Processing & Analysis using Machine Learning approaches.

Mr. Jignesh Patel from DAIICT spoke on the topic "Introduction to python for data science", it was a hand-on, interactive session. He is pursuing the PhD degree in information and communication techno\ogy at DA IICT, Gandhinagar, India. He has published in IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing. He also presented three times at IEEE International Geoscience and Remote Sensing Symposium. He has submitted his Ph. D thesis for review. currently, he is working as Assistant Professor at CHARUSAT University, Gujarat.His research interests include Machine learning, Deep learning, Remote sensing, Image processing and Computer vision.

Prof. R. Balasubramanian from IIT Roorkee delivered a session on "Applications of Machine/Deep Learning in Vision & Ima ging" . He is also a Joint Faculty in the Centre for Artificial Intelligence and Data Science since June 2021.The session was very illuminating. He has been awarded BOYSCAST Fellowship (2008-09) (Fellowship of US $3000 per month **+** perks) in Mathematical Sciences awarded by Department of Science and Technology (DST), Government of India to visit University of Windsor, CANADA for the duration of THREE months for conducting advanced training/research in the area of Computational aspects of Geometry and Algebra under the mentorship of Prof. Jonathan Wu, Canada Research Chair, Depmtment of Electrical and Computer Engineering, University of Windsor, CANADA.

Vishesh Deep Jhamb from Art of Living delivered a stress management session and taught various techniques for mental peace, the faculty received peace, joy and harmony within through this session. Stress Management Sessions through meditation are conducted for AICTE Institutions for benefiting the faculty and students by simple scientific techniques to overcome stress, anxiety, depression and physical, emotional, mental and psychological ail ments .
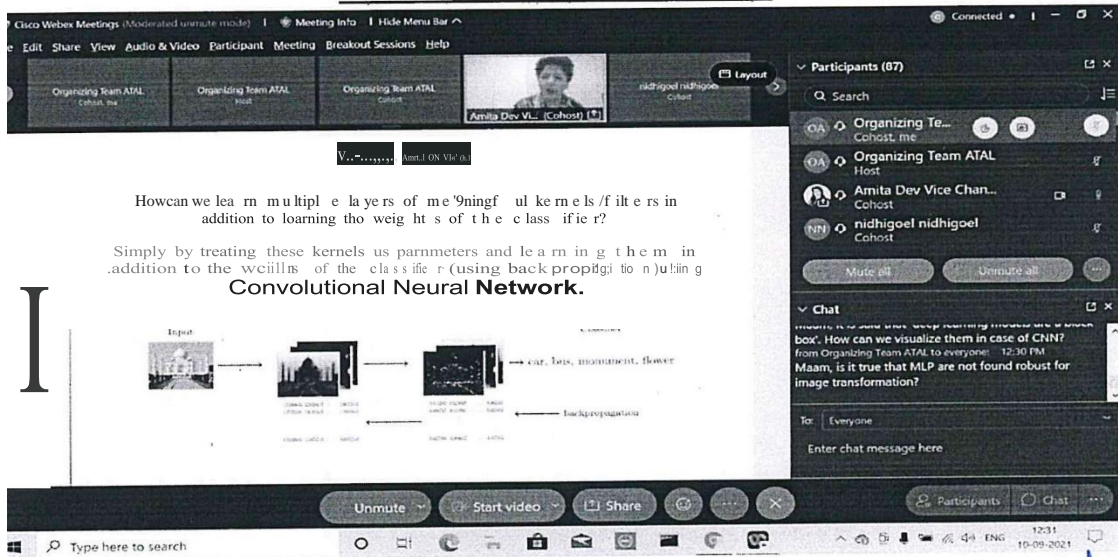
Dr. Tanvir Ahmad from Bennett University spoke on the topic "Pattern Finding, Distribution, Anomaly detect ion". Dr. Ahmad is Ph.D. in Computer Science & Engineering from IIT Indore. The participants were a great audience, there was a lot of discussion after the session. Dr. Subramanian Murala from IIT Ropar threw light on the topic "Generative Models for Video Surveillance Applications", the session was such uplift for the candidates.He is working as an Associate Professor at IIT Ropar.

Dr. Ekata Mehul Shah spoke on the topic "Opportunities available in Big Data Analytics". She is Director and CEO, Orena Solutions and Blazing Arrows Pvt. Ltd. is thorough Academician and Educator as part of various Academic Institutions and Board of Studies for 14 years and then having the career in Industry for 12 years. She is holding one patent with 'digital metering using Zigbee Technology' as well as has written couple of Chapters and Papers at International level and National level.

Dr. (Mrs.) Arnita Dev, Hon'ble VC, IGDTUW spoke about the topic "Deep Learning Model for Data Sciences (CNN)". She is doing extensive research in the field of Deep Neural Network, Speech Processing etc. having a vast experience of more than three decades. She has published more than 123 research papers in renowned International and National Journals and Conferences. She still enjoys giving talks at universities and public forums and does not miss the chance when she gets an oppo1tunity. Prof. Sanjeev Kumar spoke on the topic "Manifold Learning". The session was very informative and the participants enjoyed the session. He is working as an Associate Professor with Department of Mathematics at IIT Roorkee. Earlier, He worked as a postdoctoral fellow in AVIRES Laboratory at Department of Mathematics and Computer Science, University of Udine, Italy (March, 2008-November, 2010). His area of research include Mathematical Imaging, Machine Learning and Computational algorithms for Inverse Problems .

This led to the end of the series of lectures in the one-week FOP. In the concluding session paiticipants shared their experiences. Most of them talked about their enriching experience at the FOP. The participants were very interactive and they gained a lot. At the end of every session there was a long Q&A round where in all the participants used to ask their queries and the speakers also answered every single question. This was the best part of this online FDP where it did not land up being monotonous . All the speakers were so happy with the enthusiasm of the participants. Their liveliness made the FOP a huge success . We received positive feedback from the experts and part ici pants.

Picture of the Online ATAL FDP

Dr Nidhi Goel

(Coordinator)

Professor

Department of ECE