

# **CENTER OF EXCELLENCE “ARTIFICIAL INTELLIGENCE”**

**RESEARCH ACTIVITIES & EVENT**

**IGDTUW-DELHI**



**INDIRA GANDHI DELHI TECHNICAL  
UNIVERSITY FOR WOMEN**



# INDIRA GANDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN

(Established by Govt. of Delhi vide Act 09 of 2012)

**MOTTO: EDUCATION - ENLIGHTENMENT - EMPOWERMENT**



## COE-AI VISION

To Disseminate high quality Research and take eGovernance to the next level, by making use of AI Technologies like Computer vision, Natural Language processing and Conversational AI like chatbots and voicebots, facilitating convenience and ease of use of facilities by Citizens and empowering Government to understand citizens' requirements by harnessing their feedback in social media and other forms of unstructured data like images, videos and documents.

Robust ecosystem of Research for the Students & Faculty



# BEST PRACTICES ADOPTED IN IGDTUW

## Center Of Excellence- Artificial Intelligence



[IGDTUW](http://www.igdtuw.ac.in)

2021

### Research Activities & Prestigious Collaborations

#### SDG: Clause 17 (NEP)

1. [Research Projects](#)
2. [Initiatives Undertaken](#)
3. [Research oriented MoUs, Cotutelle & Incentives](#)
4. [Workshops, Events & Invited Talks](#)

# COE-AI: Initiatives undertaken

## Establishment of New Department – AI & Data Science

Strength: 150 students

Objective:

- Promote Women in Stem
- Boost Women in Research & Development in the domain area of disruptive technology
- Meet contemporary need of Industries



MTECH CSE-AI

Career pathways

- Research Track
- Entrepreneurship track
- Application track



BTECH CSE-AI

INDUSTRY ORIENTED  
COURSE CONTENT



**CBCS ELECTIVE  
COURSES**

- Artificial Intelligence
- Machine learning
- Deep learning
- Neural Networks and Fuzzy logic
- Natural language processing and
- Speech technology etc.

# COE-AI: Undergoing/Submitted Research Projects

**India-Philippines Project Proposal “Building Voice enabled System for the elderly and the Differently-able persons using Artificial Intelligence” (Submitted)**

**Sanskrit knowledge Accessor  
NLTM-MeiTY (Submitted)**

**Automatic Speech Recognition on Punjabi, Hindi language  
NLTM-MeiTY**

**Real-Time Automatic Speech Recognition System using Deep Neural Network under Speech & Language processing lab-COE-AI.(Undergoing)**

**CFSL Project Proposal “Automatic Approach for Real-Time face Recognition” (Undergoing)**

# COE-AI: Research Highlights- Undergoing Key Research Areas



**PATENT: “A Fuzzy Entropy-Based Method for Classification and Selection of Multi-Faceted Test Case of Software”.** Patent number: 2021105543 (Australian Patent granted)

Name of inventor(s): Pachariya, Manoj Kumar; Sharma, Arun and Kumar, Rajesh



Automatic Speech Recognition and Text-Independent Speaker Identification using Deep Learning, Pooja Gambhir, Supervisor: Dr. (Mrs.) Amita Dev.



Emotion’s recognition and Emotions Conversion, Surbhi Khurana, Supervisor: Dr. (Mrs.) Amita Dev.



Text-based Machine translation for Indian and Ancient languages (Sanskrit), Nandini Sethi, Supervisor: Dr. (Mrs.) Amita Dev.



To design and develop an enhanced classification approach for large datasets (hyperspectral images)., Garima Jaiswal, Supervisor: Dr. Arun Sharma.



To Design and development of an efficient network resource-friendly edge enabled framework using Federated Learning., Ms. Monalisa, Supervisor: Dr. Arun Sharma.

# COE-AI: Research Oriented MoUs & Cotutelle



NARA INSTITUTE OF SCIENCE & TECHNOLOGY: NAIST, JAPAN



CENTRE OF FORENSIC SCIENCE LABORATORY-CHANDIGARH  
& FORENSIC SCIENCE LAB-DELHI



COTUTELLE- JAMES COOK UNIVERSITY, AUSTRALIA



COLLOQUIUM: PROJECT COLLABORATIONS WITH  
VARIOUS INSTITUTES UNDER NLTM-MeiTy



Universiti Malaysia Perlis





# Student's Professional Upliftment

## Scholarships/Stipends

**Financial Assistance of Rs. 7,500/ per month (Top 10 students per branch) - Non GATE students pursuing M.Tech./M.Plan.**

**AICTE PG scholarship @ Rs 12400 per month – GATE Scholars**

**Rs. 5,000/- for every Research Publication in SCOPUS Index Journal (UG & PG Students)**

**Rs. 10,000/- for every Publication in SCI/SCI-E Index Journal (UG & PG Students)**

## Student Activities & Participation

**AI Club, Technical Societies, Cultural Societies, ACM Chapter, SAE International Student Chapter**

**Social Outreach programs- Mentorships & Leadership**

**Anveshan Foundation- Start-ups & Incubation Center Entrepreneurial Activities**

**Encourage Student to follows Industry & Research Intensive Activities**

# Catalyzing Quality Academic Research with Research Awards & Scholarships

## **Outstanding Research Scholarship**

**IGDTUW JRFs: Rs.  
38,000**  
**IGDTUW SRFs: Rs.  
44,000**

## **Financial Support & Monthly Stipend @10,000/- to Full time Ph.D. scholars**

## **UGC scholarships**

**JRF-Rs 31,000/- per month (plus HRA)**  
**SRF-Rs 35,000/- per month (plus HRA)**

## **PREMIER RESEARCH AWARDS**

**Cash Price: INR  
25,000/-**

## **COMMENDABLE RESEARCH AWARDS**

**Cash Price: INR  
15,000/-**

## **OUTSTANDING RESEARCH AWARDS**

**Cash Price: INR  
50,000/-**

## **MOTIVATIONAL RESEARCH AWARDS**

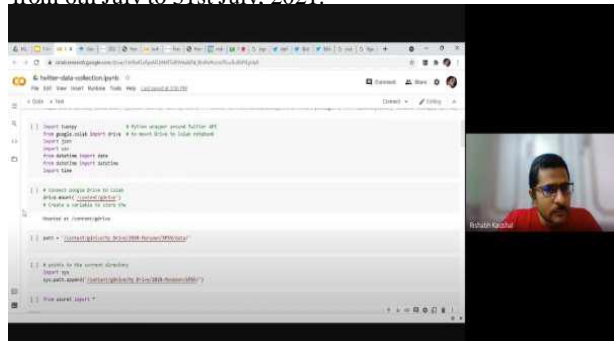
**Cash Price: INR  
10,000/-**



**COE-ARTIFICIAL INTELLIGENCE**  
**WORKSHOPS, EVENTS & INVITED**  
**TALKS**

# COE-AI: Research led Invited Talks conducted, 2021


4 weeks Summer Internship on Machine Learning and Deep Learning IGDTUW, Delhi organized an Internship Programme on "Machine Learning and Deep Learning" from 6th July to 31st July, 2021.



The 14th National Workshop on Recent Trends in Software Testing was conducted with joint collaboration of IGDTUW, New Delhi and National Institute of Technology, Rourkela, Uttar Pradesh.




 **Indira Gandhi Delhi Technical University for Women**  
Kashmere Gate, New Delhi-110006

 75  
अस्मदीय  
अमृत महोत्सव



**CENTER OF EXCELLENCE - ARTIFICIAL INTELLIGENCE**

**Insights into Face Recognition: Fundamental Concepts & Contemporary Techniques (continued...)**



**Prof. Virendra P. Vishwakarma**  
University School of Information, Communication & Technology (USIC&T), GGSIP University New Delhi.

22nd April , 2022 at 3:00 PM -4:00 PM  
Meeting Link: <https://igdtuw1.webex.com/igdtuw1/j.php?MTID=m60f0b923fad00b1c10536c506da343a>  
Meeting Number: 2642 517 6365  
Password: Research

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Kashmere Gate, Delhi-110006  
[www.igdtuw.ac.in](http://www.igdtuw.ac.in)

**Department of AI and Data Sciences and Centre of Excellence – AI**  
(under Department of Science and Technology, GOI)

**Expert Talk on**  
**Data Concerns related to Real-Time Systems and Data Science Models**



**Dr. Ing. Mario José Diván**  
Full Professor,  
National University of La Pampa  
Coronel Gil 353, Primer Piso - Santa Rosa  
(CP 6300) - La Pampa - Argentina

Date and Time: 27th August, 2021 at 8PM  
Link to Join:  
<https://igdtuw1.webex.com/igdtuw1/j.php?MTID=m0119a76cd4d73077d3f80dd87510a75>  
Event Id: 159 137 8195  
Pwd: IGDTUW

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Kashmere Gate, Delhi-110006  
[www.igdtuw.ac.in](http://www.igdtuw.ac.in)



**Department of Artificial Intelligence and Data Sciences and Department of Information Technology**

**Expert Talk on**  
**Artificial Intelligence in Security**



**Mr. Deepak Talwar**  
National Cyber Security Officer,  
Microsoft India

Date and Time: 29<sup>th</sup> June, 2021 at 12:00 Noon  
Link to Join:  
<https://igdtuw1.webex.com/igdtuw1/onstage/g.php?MTID=e3940bb0e9c0445f4cc57ba6398381091>  
Event Id: 158 555 4451  
Pwd: 2021

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Kashmere Gate, Delhi-110006  
[www.igdtuw.ac.in](http://www.igdtuw.ac.in)

**Department of AI and Data Sciences**

**Invited Talk on:**  
**Keystroke Behavioral Biometric: A New Dimension of Security for Computer System's Authentication**



**Dr. Syed Zulkarnain Syed Idrus**  
Associate Professor  
Universiti Malaysia Perlis, Malaysia

Date and Time: 11th Dec., 2021, 11:30 AM  
Link to Join:  
<https://igdtuw1.webex.com/igdtuw1/j.php?MTID=m3b2ebe43d07add8bf781fb4fd555ac3>  
Meeting number: 2643 588 8213  
Password: IGDTUW

IGDTUW Arun Sharma Surbhi Khurana Kashika Akhouri Conference Room IGDTUW

**INDIRA GANDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN**  
Kashmere Gate, Delhi-110006  
[www.igdtuw.ac.in](http://www.igdtuw.ac.in), [www.aistconference.com](http://www.aistconference.com)

**Inauguration Ceremony of**  
**3<sup>rd</sup> INTERNATIONAL CONFERENCE ON**  
**ARTIFICIAL INTELLIGENCE AND SPEECH TECHNOLOGY**

Publication Partner  
Springer

**(AIST-2021)**  
**NOVEMBER 12 -13<sup>th</sup> 2021**

**Chief Guest**  
Dr. Parimal Prasad  
Scientific Advisor to Chief of Integrated Defence Staff (IA in CDS)

**Guest of Honour**  
Dr. Rishi Narayan  
Associate Director (Data Science and AI), AICTE & Young Global Leaders

**General Chair**  
Dr. Jibin J Jacob  
Vice-Chancellor, IISITW

**Technical Program Chair**  
Dr. J. S. Agrawal  
Emeritus Professor - CSE

Supported by  
Ministry of Education, Government of India  
BET (Centre of Excellence – AI, IGDTUW)

**Keynote Speakers**

Dr. Jyoti Chakravarty, IISITW, India  
Dr. S. S. Joshi, IISITW, India  
Dr. Rajeev Raghunath, University of Melbourne, Australia  
Dr. Tanya Datta, University of Brighton, Britain  
Dr. Luciano Baccarelli, Inria Paris, France  
Dr. S. Srinivas, IIT Madras

Conference Secretary  
Dr. Anil Sharma  
Head of AI and Data Science, IGDTUW

Jointly with  
IGDTUW

## Technical Tracks

1. Trends and Applications in Speech Processing
2. NLP and its applications
3. Applications of Machine Learning and Deep Learning in Healthcare
4. Recent Trends in Machine Learning and Deep Learning
5. Analysis using Hybrid Technologies with Artificial Intelligence
6. Image Analysis using Machine Learning and Deep Learning
7. Recent advancements using Hybrid Technology

Indira Gandhi Delhi Technical University for Women organized the third season of the International Conference on Artificial intelligence and Speech Technology (AIST-2021). The event was held on 12th and 13th November 2021 which witnessed a great success, guided by many eminent guests and speakers from international levels such as Germany, France, Netherlands, etc. More than 183 papers were received in the AIST 2021 Conference and total of 55 papers were selected, presented in the Conference by the Springer CCIS Edition. There were Seven technical tracks in which the selected papers were presented in their respective tracks. Each track had eight to nine papers being presented by the authors.

# COE-AI: Events & Activity highlights 2021, conducted by AI Club

WOMEN IN BIG DATA - INDIA CHAPTER  
IN COLLABORATION WITH  
INDIRA GANDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN  
KASHMERE GATE DELHI-110008

WOMEN IN BIG DATA

CALLS FOR REGISTRATION  
FOR A TWO DAY WORKSHOP ON  
**INTRODUCTION TO DATA ANALYSIS  
USING MS EXCEL**

TWO INDUSTRY EXPERT TALKS

 **Time:**  
1:15-2:30PM 

**Dr. Ruchi Saxena**  
Director,  
Cambridge

**Piyush Sharma**  
Global CMO,  
C-Base Analytics

FOUR DATA ANALYSIS SESSIONS BY

 **Session 1:**  
9:30AM to 12PM  
**Session 2:**  
3 PM to 6:45PM 

**Ashutosh Sundaram**  
Executive Director, E-commerce Platform,  
E-commerce Marketing Solutions

**Prasanna Sundaram**  
Talent For India Alumni, E-commerce,  
E-commerce Marketing Solutions

**DATES: 22nd and 23rd January 2021**

THE PARTICIPANTS WILL BE GIVEN E-CERTIFICATES ON SUCCESSFUL COMPLETION.

Register at: <https://cut.ly/qzmlrV>

IGDTUW AI Club in collaboration with Women in Big Data – India Chapter organized a two-day workshop on **“Introduction to Data Analysis Using MS Excel”** on 22nd & 23rd January, 2021.

AI CLUB  
IGDTUW

AI CLUB  
PRESENTS

**AI KICKSTART**

5 DAY CAMP ON  
INTRODUCTION TO PYTHON  
AND MACHINE LEARNING

OPEN FOR EVERYONE

**TIMELINE : 11th -17th APRIL 2021**

**DEADLINE TO REGISTER : 9th APRIL 2021.**

IGDTUW AI Club presented AI Kickstart, a five day camp on **“Introduction to Python and Machine Learning”** from 11-17 April 2021

# COE-AI: Events & Activities highlights 2021 conducted by ACM Chapter

**ACM Student Chapter**  
Technical Society at  
Department of Information Technology  
Indira Gandhi Delhi Technical University for Women

7th SUMMER WORKSHOP CUM INTERNSHIP  
on  
**Computational Techniques for Social Good**  
brings  
An Expert Talk on  
**Sanskrit Computational Linguistics**



**Dr. Pawan Goyal**  
Associate Professor  
Department of Computer Science and Engineering  
Indian Institute of Technology, Roorkee

June 28, 2021  
3:00 - 4:00 PM  
11:00 AM - 12:00 PM  
Coordinator: Dr. Rishabh Kaushal, Faculty Advisor, ACM Student Chapter

**ACM Student Chapter**  
Technical Society at  
Department of Information Technology  
Indira Gandhi Delhi Technical University for Women

SUMMER WORKSHOP CUM INTERNSHIP  
on  
**Computational Techniques for Social Good**  
brings  
An Expert Talk:  
**Complex Network Analysis**



**Dr. Gitanjali Yadav**  
Lecturer of Cambridge, UK  
scientist V, NIPGR  
Ph.D (NIL, JNU; New Delhi)

July 9, 2021  
4:00 - 5:00 PM



Scan to register

**ACM Student Chapter**  
Technical Society at  
Department of Information Technology  
Indira Gandhi Delhi Technical University for Women

7th SUMMER WORKSHOP CUM INTERNSHIP  
on  
**Computational Techniques for Social Good**  
welcomes  
Expert Speaker



**Hitkul Jangid**  
Ph.D. Scholar at  
Precog & MIDAS Research Groups, IIT-Delhi  
Research Intern at Goldman Sachs  
Tata Consultancy Services Fellow

Topics he would speak are:

- NLP and Computer Vision
- Attention, Transformer, GANs & many more.



Scan to register

**ACM Student Chapter**  
Technical Society at  
Department of Information Technology  
Indira Gandhi Delhi Technical University for Women

7th SUMMER WORKSHOP CUM INTERNSHIP  
on  
**Computational Techniques for Social Good**  
brings  
An Expert Talk on  
**Evolutionary Computation**



**Prof. Mamta Madan**  
Professor of Computer Science, VIPS  
Ph.D. (CS), M.Phil (CS), MCA & MBA (MS)  
IC Chairman and Academic Council Member at VIPS

July 09, 2021  
4:00 - 5:00 PM



Scan to register

**ACM Student Chapter**  
Technical Society at  
Department of Information Technology  
Indira Gandhi Delhi Technical University for Women

7th SUMMER WORKSHOP CUM INTERNSHIP  
on  
**Computational Techniques for Social Good**  
brings  
An Expert Talk on  
**Research using WhatsApp Data**



**Dr Kiran Garimella**  
Postdoctoral Hammer Fellow at  
Massachusetts Institute of Technology (MIT)  
IDSS (Institute for Data, Systems, and Society)  
Cambridge, Massachusetts, United States

July 6, 2021  
5:30 - 6:30 PM  
<https://meet.google.com/kst-fzbc-bzs>  
Coordinator: Dr. Rishabh Kaushal, Faculty Advisor, ACM Student Chapter

**ACM Student Chapter**  
Technical Society at  
Department of Information Technology  
Indira Gandhi Delhi Technical University for Women

7th SUMMER WORKSHOP CUM INTERNSHIP  
on  
**Computational Techniques for Social Good**  
brings  
An Expert Talk on  
**Computers and Medicine**



**Prof Tavpritish Sethi**  
Associate Professor  
Computational Biology, IIT Delhi  
M.Sc., Grad. School of Carnegie Mellon  
Bio-Informing Professor, Open Source University, Stanford of Medicine  
Ph.D., CSU-Institute of Genomics and Integrative Biology

July 08, 2021  
11:00 AM - 12:00 PM  
<https://meet.google.com/psm-ndm-ndm>  
Coordinator: Dr. Rishabh Kaushal, Faculty Advisor, ACM Student Chapter

**ACM Student Chapter**  
Technical Society at  
Department of Information Technology  
Indira Gandhi Delhi Technical University for Women

7th SUMMER WORKSHOP CUM INTERNSHIP  
on  
**Computational Techniques for Social Good**  
brings  
An Expert Talk on  
**Computers and Medicine**



**Prof Tavpritish Sethi**  
Associate Professor  
Computational Biology, IIT Delhi  
M.Sc., Grad. School of Carnegie Mellon  
Bio-Informing Professor, Open Source University, Stanford of Medicine  
Ph.D., CSU-Institute of Genomics and Integrative Biology

July 08, 2021  
11:00 AM - 12:00 PM  
<https://meet.google.com/psm-ndm-ndm>  
Coordinator: Dr. Rishabh Kaushal, Faculty Advisor, ACM Student Chapter

# COE-AI: Events & Activities Highlights, 2021 conducted by Technical Societies



**CATCH THE RAIN**  
WATER INITIATIVE

UNNAT BHARAT ABHIYAN AND VIJHANA BHARATI  
CONJOINS WITH NATIONAL WATER MISSION FOR  
**CATCH THE RAIN INITIATIVE**

**EVENT SCHEDULE**

- 10:00am-10:05am  
**Welcome Address**
- 10:05am-10:30am  
**Key note Address by**  
Shri G. Asok Kumar,  
IAS, Additional Secretary,  
Ministry of Jal Shakti and Mission Director, NWM
- 10:30am-11:00am  
**Special Address by**  
Prof. V.K. Vijay (National Coordinator, UBA)  
&  
Shri Jayant Sahasrabudde (Organizing Secretary, VIBHA)
- 11:00am-11:10am  
**Introduction to CATCH THE RAIN Initiative by UBA- BSWIE-VIBHA**
- 11:10am-12:40pm  
**Plenary Talk session**
- 12:40pm-12:55pm  
**Panel Discussion**
- 12:55pm-1:00pm  
**Conclusion and Vote of Thanks**

JUNE 5-2021 (SATURDAY) | 10:00AM | VIRTUAL EVENT

<https://www.ubn.in/gfRI/8AQND>



Vijhana Bharati (VIBHA), Unnat Bharat Abhiyan (UBA)  
&  
Center for Innovation and Bio-Design (CIBioD)  
PGLIBET, Chandigarh

Special Virtual International Summit

## TECH4SEVA

Technology Outreach as Enabler for Inclusive, Sustainable and Affordable Healthcare

**Themes**

- Affordable Healthcare
- Environment Friendly and Sustainable Technologies
- Academic Research, Social Entrepreneurship & Employment & Entrepreneurship
- Innovation & Technologies for Health & Welfare

Focus is on engaging national capacity with application of health technologies and innovations to improve efficiency of healthcare delivery system. Sustainable business will help to promote the Technology Outreach as Enabler for Inclusive, Sustainable and Affordable Healthcare.

**Dates : October 20-23, 2021**

**Who can join online:**

- Students
- Faculty Members
- Shaping Entrepreneurs
- Researchers
- Medical Professionals

**Summit Highlights:**

- Priority Sessions
- Workshop
- Poster/Project Presentations
- Panel Discussion
- Workshops

**Teach4seva Online Expo**

[www.cibiod.in](https://www.cibiod.in) | [care@vibha.in](mailto:care@vibha.in) | [tech4seva@cibiod.in](mailto:tech4seva@cibiod.in)



**enactus INDIA NATIONAL COMPETITION**  
**2021** 14TH AUGUST - 21ST AUGUST



We at Enactus India are very happy and excited to celebrate you and the positive impact you have created this year through the 2021 Enactus India Online National Competition, 14-21 August 2021.

Given the uniqueness of the past year we are introducing a new vertical at this year's National Competition for Early Stage Projects!

There will be no qualifying round and all teams are invited to participate.



**GREENSPHERE-IGDTUW**  
Kashmere Gate, Delhi-110006

## WORLD ENVIRONMENT DAY 2021

### ONLINE QUIZ

**Date and time**  
4th June 2021, 4:00pm to 4:30pm

**Eligibility**  
Any Environment enthusiast who is currently enrolled in any University in India

**Cash Prizes worth ₹ 6,000 for the winners**


**Platform:** <https://dare2compete.com/o/28HvrAK?refId=0DKsUzV>

**Date of Result Declaration:** Winners will be declared on the social media platform of Greensphere within a week of organising the quiz. The decision made by Greensphere-IGDTUW will be final

**Email:** [projectecho.igdtuw@gmail.com](mailto:projectecho.igdtuw@gmail.com) | **University website:** <https://www.igdtuw.ac.in/>



# COE-AI: Events & Activities Highlights, 2021 conducted by Campus Departments



Indira Gandhi Delhi Technical University for Women, Delhi-110006  
Department of Computer Science and Engineering

Presents  
Expert Session on  
**'Engineering the Internet of Things'**  
08<sup>th</sup> January, 2021 11:00 AM – 12:00 Noon (Cisco Webex)




Hod:  
Prof. S.R.N. Reddy,  
CSE Department,  
IGDTUW, Delhi.

Organizer:  
Prof. Devendra K Triyal,  
CSE Department,  
IGDTUW, Delhi.

Speaker: Prof. Bhaskar Krishnamachari, Professor, University of Southern California, United States.


He serves as the founding director of the USC Viterbi Center for Cyber-Physical Systems and the Internet of Things (CCI) and as co-director of the USC Center for Human Applied Reasoning and the Internet of Things (CHARIOT). He works on the design of algorithms, protocols, and applications for the internet of things and distributed systems.

Meeting Details: Meeting number: 158 020 7279. Password: IGDTUW  
Link: <https://igdtuw1.webex.com/igdtuw1/j.php?MTID=mb54869a3d71e4988addb15ab05b277c>



Indira Gandhi Delhi Technical University For Women  
(Established by Govt. of Delhi vide act 9 of 2012)  
An ISO 9001:2015 Certified University

hosts  
Webinar on  
**'Learning with Weak Social Supervision for Fake News Detection'**



Date:  
29<sup>th</sup> January, 2021  
Time:  
7.30 PM - 8.30 PM (IST)  
Platform:  
Cisco Webex

Meeting Link (click on the link)  
<https://igdtuw1.webex.com/igdtuw1/jnstage/w.pho?MTID=e13-847d8f1cce490bf028d3501240b>  
Event number: 158 220 5533  
Event Password: IGDTUW


Speaker: Dr. Kai Shu, Assistant Professor, Department of CS, Illinois Institute of Technology, Chicago, US

Brief Bio: Kai Shu is a Gladwin Development Chair Assistant Professor in the Department of Computer Science at Illinois Institute of Technology. His research lies in machine learning, data mining, social computing with applications such as disinformation, education, and healthcare. He obtained his PhD in Computer Science at Arizona State University.

Patron  
Dr. (Mrs.) Amita Dev  
Hon'ble Vice Chancellor,  
IGDTUW

Advisor  
Prof. S.R.N. Reddy  
Professor & HOD, CSE,  
IGDTUW


Coordinators  
Ms. Monika Choudhary  
Ms. Vibha Pratap  
Assistant Professor, CSE, IGDTUW



INDIRA GANDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN

“ Artificial Intelligence... creating the future ”

An Expert Lecture On  
**AI IN MEDICINE AND PUBLIC HEALTH**

EMINENT SPEAKER.....  


**DR. TAVPRITESH SETHI**  
Founding Head, Center of Excellence in Healthcare, IIT-Delhi,  
Wellcome Trust/DBT India Alliance Fellow,  
AIMS, New Delhi

DATE: 17 JUNE 2021,  
TIME: 3:00 PM - 4:00 PM

ORGANISED BY:  
DEPARTMENT OF APPLIED SCIENCES AND HUMANITIES

Webex ID: 1582205533  
Join Webex by: <https://igdtuw1.webex.com/igdtuw1/jnstage/w.pho?MTID=e13-847d8f1cce490bf028d3501240b>  
Event password: 1582205533



**VIRTUAL LAB VISIT & HANDS ON SESSION**  
ON  
**ANALOG & DIGITAL ELECTRONICS**

The department has following well equipped laboratories in related fields and students will be exposed to various practical assignments in the area of Electronics and Communication

- DSP Lab
- Communication Lab
- Analog Electronics Lab
- Microwave Lab
- Tele Communication Networks Lab
- Micro processor Lab
- Digital Circuit & Systems Lab
- Electrical Science Lab/ Control Engineering Lab
- Circuit & Systems Lab
- Mobile Communication Lab
- VLSI Design Lab
- Optical Communication Lab


Organized by  
INDIRA GANDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN, DELHI

KNOWLEDGE PARTNER OF VIGYAN JYOTI SCHEME, DST)

FOR  
JAWAHAR NAVODAYA VIDYALAYA, JAFFARPUR KALAN, DELHI

14<sup>th</sup> January 2021, Thursday  
(11:00 AM - 1:00 PM)

PLATFORM-GOOGLE MEET  
Link for joining:  
<https://meet.google.com/npw-icx-akx>


WOMEN IN BIG DATA - INDIA CHAPTER  
IN COLLABORATION WITH  
INDIRA GANDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN  
NAVODAYA GATE DELHI-110006

WOMEN IN BIG DATA

**CALLS FOR REGISTRATION FOR A TWO DAY WORKSHOP ON INTRODUCTION TO DATA ANALYSIS USING MS EXCEL**

TWO INDUSTRY EXPERT TALKS

Time: 1:15-2:30PM


 **Dr. Ruchi Saxena**  
Director, Center for Data Analytics

 **Piyush Sharma**  
Global CIO, E- Suite Advisor

**FOUR DATA ANALYSIS SESSIONS BY**


Session 1: 9:30AM to 12PM  
Session 2: 3 PM to 5:45PM

 **Ashutosh Sundaram**  
Co-Proprietor, The Harvest Pickard, Inc. Systems Manager at Redstone

 **Prasanna Sundaram**  
Team Lead for India Market, Cox Corporation, The National City Marketing Solutions

THE PARTICIPANTS WILL BE GIVEN E-CERTIFICATES ON SUCCESSFUL COMPLETION.

Registration at: <https://cuti.org/igdtuw>



Indira Gandhi Delhi Technical University For Women  
(Established by Govt. of Delhi vide act 9 of 2012)  
An ISO 9001:2015 Certified University

Department Of Computer Science & Engineering  
Hosts  
A Webinar on  
**Evolutionary Intelligence in Engineering**

Patron  
Dr. (Mrs.) Amita Dev  
Hon'ble Vice Chancellor,  
IGDTUW

Advisor  
Prof. Seema K.R  
Professor & HOD, CSE, IGDTUW

Coordinators  
Dr. Ravinder.M  
Assistant Professor, CSE, IGDTUW  
Ms. Monika Choudhary  
Assistant Professor, CSE, IGDTUW  
Ms. Khyati Ahlawat  
Assistant Professor, CSE, IGDTUW

Resource Person:  
Amir H. Gandomi  
Professor of Data Science,  
Faculty of Engineering & Information Technology,  
University of Technology Sydney,  
Australia.

Date: 17<sup>th</sup> July, 2021  
Time: 5:30 PM - 7:00 PM  
IST (Indian Standard Time)

Mode of Webinar:  
Online (Webex or Zoom App)

Registration Link:  
<https://forms.gle/76CtqG75SorUjMn8T8>  
No Registration Fee.  
E-certificate will be provided to the participants.

# COE-AI: FDP's and Internship workshops 2021



**Six-Week Summer Internship**  
**Cyber Security: Operations and Technological Solutions**  
 (Online Mode)  
**12<sup>th</sup> June – 25<sup>th</sup> July 2021**  
 Inauguration in gracious presence of  
  
**12<sup>th</sup> June 2021**  
 at  
**11:30 am onwards**  
  
**Mr. Deepak Talwar**  
 National Security Officer, Microsoft, India  
**Organised by Department of IT**  
 Indira Gandhi Delhi Technical University for Women  
**Under aegis of**  
 Information Security Education and Awareness Project,  
 Ministry, Govt. of India  
**In association with**  
 Anveshan Foundation, IGDTUW

**Itinerary**  
**Inauguration Programme**  
 (Virtual Mode)  
**12<sup>th</sup> June 2021 at 11:30 am onwards**

**11:30 am** Welcome Address by Prof R K Singh, Chief Investigator, ISEA Project and Registrar, IGDTUW

**11:35 am** Presidential Address by Hon'ble Vice Chancellor-IGDTUW

**11:50 am** Address by Guest of Honour, Mr. Deepak Talwar, National Security Officer, Microsoft

**12:05 pm** Vote of thanks by Prof A K Mohapatra, HoD (IT)

**12:30 pm** Technical Session by Mr. Abhay Pat Chauhan, Cyber Security Specialist, Singapore

**Link to Join as Attendee**  
<https://igdtuw1.webex.com/igdtuw1/joinstage.w.php?MTID=e94dc564ccdf802a5ddccdf10a824da07>

**Meeting id: 159 885 6443 Password: 1234**

**One Week online Faculty Development Programme**  
**On Machine Learning and Deep Learning Applications**  
 Under the banner of  
**INDIRA GANDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN (IGDTUW)**  
**1<sup>st</sup>, 5<sup>th</sup> February, 2021**



**Patron**  
 Dr. (Mrs.) Anita Des  
 Hon'ble Vice Chancellor, IGDTUW

**Advisor**  
 Prof. S.R.N. Reddy  
 Professor & HOD, CSE, IGDTUW

**Coordinators**  
 Dr. Ravinder, M  
 Assistant Professor, CSE, IGDTUW  
 Ms. Vibha Pratap  
 Assistant Professor, CSE, IGDTUW  
 Ms. Monika Chaudhary  
 Assistant Professor, CSE, IGDTUW

**Organized by**  
 Department of CSE, IGDTUW, Delhi.

**Organizing Committee**  
 Prof. Ela Kumar  
 Prof. D. K. Tyagi  
 Prof. Seema K.K.  
 Mr. B. Indra Thannaya  
 Ms. Najma Zehra Naqvi  
 Dr. Vishwanath Das  
 Dr. Arunima Jalawat  
 Ms. Khyati Ahlawat  
 About IGDTUW

Indira Gandhi Delhi Technical University for Women (IGDTUW) has been upgraded from Indira Gandhi Institute of Technology in May 2013 vide Delhi State Legislature Act 9, 2012, as a non-affiliating teaching and research University at Delhi to facilitate and promote studies, research, technology, innovation, incubation and extension work in emerging areas of professional education among women, with focus on engineering, technology, applied sciences, management and in allied areas with the objective to achieve excellence in these and related fields. The objective of the University is to foster industry relevant research and innovations and empower the women of our country through value based higher education making them employable, self-reliant, responsible citizen of the country with concern for environment and society.

**About Department of CSE:**  
 The Computer Science and Engineering Department is the most versatile department of college and caters to the needs of other departments as well. The department aims at developing the fundamental conceptual knowledge along with the total personality, which helps computer engineers to face the challenges of rapidly changing software industry. Numerous professional activities are conducted to improve interaction between students, faculty, other academic institutions and industries. The Department offers B.Tech, M.Tech (AI), and Ph.D Courses.

**Objective and Scope**  
 This Faculty Development Programme (FDP) is devoted to addressing the need to enhance the knowledge about the latest technologies pertaining to Machine Learning (ML) and Deep Learning (DL) that are usually considered as the subsets of Artificial Intelligence (AI). Deep learning is a subset of machine learning that has networks capable of learning unsupervised/supervised from data that is unstructured or unlabeled. It imitates the workings of the human brain in processing data and creating patterns for use in decision making. The objective of this FDP is to introduce the participants to the world of Machine Learning and Deep Learning and give an insight on how and where it can be used.

- The objective of the FDP is to introduce fundamentals Machine Learning and Deep Learning.
- This FDP will be a very useful platform for faculty and researchers to update their knowledge.
- This FDP also focuses on exploring various research opportunities and challenges in the field of Machine Learning and Deep Learning.
- Topics to be covered
- Introduction to Machine Learning and Deep Learning.
- Supervised Machine Learning Applications
- Un-Supervised Machine Learning Applications
- Reinforcement Learning.
- Deep Learning Applications



**Indira Gandhi Delhi Technical University for Women Organises**  
**A ONE WEEK ONLINE AICTE TRAINING AND LEARNING (ATAL) FDP ON FOUNDATION OF DATA SCIENCE AND ITS APPLICATIONS (ELEMENTARY)**  
**(26 JULY 2021 TO 30 JULY 2021)**

**Indira Gandhi Delhi Technical University for Women**  
 IGDTUW campus has been upgraded from Indira Gandhi Institute of Technology in May 2008 vide Delhi State Legislature Act 9, 2012, as a non-affiliating teaching and research University at Delhi to facilitate and promote studies, research, technology, innovation and extension work in emerging areas of professional education among women, with focus on Engineering, Technology, Applied sciences, Management and in allied areas with the objective to achieve excellence in these and related fields.

**Organized by**  
 Department of Electronics & Communication Engineering




**Indira Gandhi Delhi Technical University for Women**  
**Centre of Excellence – Artificial Intelligence, IGDTUW**  
 (supported by Department of Science and Technology, GOI)  
 &  
**IGDTUW – ANVESHAN FOUNDATION**  
 IGDTUW Campus, Kashmere Gate, Delhi-110006  
**Eight Weeks Online Internship – 2021**  
 on  
**'Machine Learning and Deep Learning'**  
**Course Duration: 8<sup>th</sup> June to 31<sup>st</sup> July 2021 | 120 Hours**  
**Who Should Attend | Eligibility**  
 UG, PG students and PhD Research Scholars who are enthusiastic to do learn  
**Course Fee : INR 3000/- (INR 2000/- for IGDTUW students)**  
**Funding Support: 100% for best project and 50% for next two projects. Opportunity for getting seed fund and mentoring for further development, commercialization and patent. Fee reimbursement for Conference paper.**  
**Internship Certificate will be provided to all the participants after successfully completing the course and development of the Project.**  
 Any queries could be directed to Prof. Arun Sharma/Mr. Rahul Sachdeva  
 | Email:- [arunsharma@igdtuw.ac.in](mailto:arunsharma@igdtuw.ac.in) / [rahulsachdeva@igdtuw.ac.in](mailto:rahulsachdeva@igdtuw.ac.in)  
 Registration Link:- <https://bit.ly/3v46ocw>  
 Website:- <http://www.anveshanfoundation.org> | University Website:- <http://www.igdtuw.ac.in>



(Scan to Register)