

One-Week Faculty Development Program On

Data Sciences

(Emerging Frontiers of Data Science and Machine Learning)

Under the banner of

**AICTE Training & Learning (ATAL)
Academy**

**Supported by
AICTE, New Delhi.**

12th October to 16th October, 2020



Chief-Patron

Prof. Anjila Gupta
Vice Chancellor, GGV, Bilaspur

Patron

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

Coordinators

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**

About AICTE ATAL Programme

AICTE Training and Learning (ATAL) Programme is an initiative by AICTE, which aims at empowering faculty to achieve goals of Higher Education such as access, equity and quality. This programme is, designed to fulfil the need to train the young generation in skill sector and having faculty & technicians to be trained in their respective disciplines. It was felt that Training with latest tools and technologies is vital to keeping an institute competitive and more productive. Training is required for increasing the knowledge and skills of students to make them more employable to acquire global competencies. It also transforms them to harmonize with society and most importantly to make them a good citizen of the country.

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 Department

The Department of Computer Science & Engineering was established in 1997. The department is committed to provide quality higher education on the field of Computer Science & Engineering With the understanding, knowledge and practical competence to participate in a long revolution. The knowledge will enable you to understand and foresee the great changes and challenges that Computer Science presents to the world, now and in the future. Besides teaching, there is also doubt removal session. The department has specialized laboratories such as NETWORKING LAB, ADVANCE PROGRAMING LAB, DATA BASE & UNIX LAB, PROJECT LAB. The department provides opportunities for carrying project by students under joint supervision of the faculty and experts from industry. The department has involved in providing training in reputed government and public sectors like DRDO Delhi, Microsoft Hyderabad, CMC Kolkata, Orbit IT Hyderabad, S.E.C.L., B.S.N.L., Indian Railways, Bokaro Steel Plant & Bhilai Steel Plant (SAIL), Software Tech & ISM Bangalore. Our students are working in reputed private, public and govt. organizations. Some of them are Infosys, Wipro, Persistent, IBM, TCS, Mahindra BT, Syntel, Satyam, BSNL, NTPC, INFLIBNET.

Objective of the Program

The workshop is aimed at imparting knowledge and training on the fundamentals of Data Science and Machine Learning. The main objective is to make the participants familiar with the Emerging Frontiers of Data Science and Machine Learning. More emphasis will be given to practical hands-on exposure by solving some real life problems using Data Science and Machine Learning. FDP participants may be able to understand the basics of data science techniques such as classification/regression techniques, Model selection and evaluation procedures, unsupervised learning, dimension reduction techniques and applications of data science.

- The proposed FDP provides an opportunity to discuss and address the experimental, theoretical work and methods in solving problems.
- How Emerging Data Science and Machine Learning Works.
- How to apply Data Science and Machine Learning Tools and Techniques to solve the problems
- Exchange and cross-fertilize their ideas, in the fields of Data Science and Machine Learning.
- Hands on training on Data Science and Machine Learning tools and techniques are to be applied for different application

Topics to be covered

This FDP will help you learn the Emerging Frontiers of Data Science and Machine Learning in various fields. This FDP program proposed the following content.

- Overview of Data Science
- Mathematical Foundation for Data Science
- Data pre-processing using Python/R programming
- Data analysis and regression techniques
- Machine Learning Techniques
- Supervise Learning
- Feature Engineering
- Feature selection
- Unsupervised Learning
- Dimension Reduction
- Introduction to Deep Learning
- Applications of Data Science in various fields
- Hands-on Session using MATLAB /Python

Resource Persons

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

Who Can Participate

This course provides a forum for Faculties of AICTE approved Institutions and research students, UG and PG students working in the related areas to enhance their background and get exposed to intricate research aspects and to update the knowledge of the faculty.

Registration Fee

No registration fee will be charged from the participants. Registration for the program will be on First Come First Serve basis. They will be provided free course material.

Registration Process

Registration is required for participating in this course. Applicants can fill the registration form only in online mode available at <https://atalacademy.aicte-india.org/login>

Certification

Certificates shall be issued by the AICTE Training and Learning (ATAL) Academy to those participants who have attended the programme with minimum 80% attendance and scored 60% marks in the test conducted at the end of the online FDP.

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

**One-Week Faculty Development Program
On
Data Sciences**

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Academy**

Event Schedule					
Dates	10.00AM-11.30AM	11.30AM-12.00PM	12.00PM-1.30PM	1.30PM-3.00PM	3.00PM-4.30PM
12.10.2020 (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
13.10.2020 (Tuesday)	Session 3 Pandas and Numpy for Data Preprocessing	<i>Break</i>	Session 4 Data Visualization with Matplotlib	<i>Break</i>	Session 5 Introduction to Seaborn
14.10.2020 (Wednesday)	Session 6 Machine Learning and Its Types	<i>Break</i>	Session 7 ML Regression and Classification Hands-on	<i>Break</i>	Session 8 K-Fold Validation and Performance Metrics
15.10.2020 (Thursday)	Session 9 Text processing and various representations	<i>Break</i>	Session 10 Using NLTK for Text Analytics	<i>Break</i>	Session 11 Introduction to Deep Learning
16.10.2020 (Friday)	Session 12 Keras and Tensorflow in Practice	<i>Break</i>	Session 13 CNN and Image Classification	<i>Break</i>	Session 14 Health and Happiness Assessment and Validation Session (04:30 onwards)



REPORT

DATA SCIENCE

**Date: 12-10-2020 to 16-10-2020,
Department of Computer Science & Engineering,
SoS (E&T), Guru Ghasidas Vishwavidyalaya
(A Central University), Bilaspur, C.G., India**

AICTE TRAINING AND LEARNING ACADEMY, NEW DELH

One-Week Faculty Development Program On Data Sciences

Data Science 5-Days AICTE sponsored workshop was conducted from 12th to 16th October 2020 in which around 110 participants from different parts of the country participated.

The speakers for the 5-day workshop on “DATA SCIENCE” were:

Dr.Ashish Khare	
	<p>Designation: Associate Professor, Computer Science at University of Allahabad</p> <p>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.</p>
Dr.Manish Khare	
	<p>Designation: Professor Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar</p> <p>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>

	<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>
Korra Sathya Babu	
	<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>
Mr.Chandramani Sharma	
	<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 insdtry. He did is Masters in Computer Science from DAVV Indore and got into the doctoral bangdwagon 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>
Mr.Neeraj Varshney	

ATAL workshop on Data Sciences



Designation: Assistant Professor Computer Engineering and Applications Department of GLAITM

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

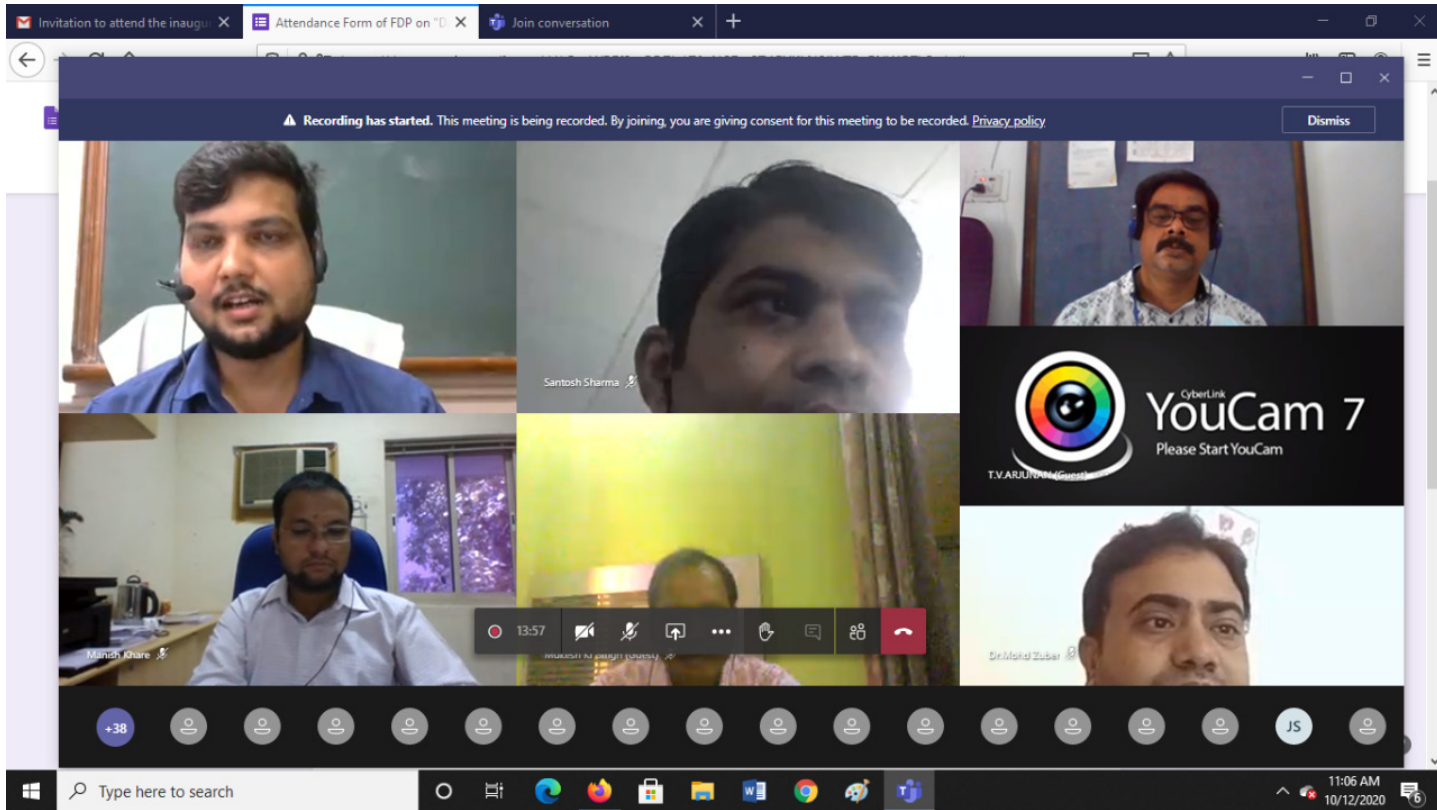
The schedule of the workshop was as below-

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
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The inauguration was held on 12th October 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.

ATAL workshop on Data Sciences



ATAL workshop on Data Sciences

The list of participants was:-

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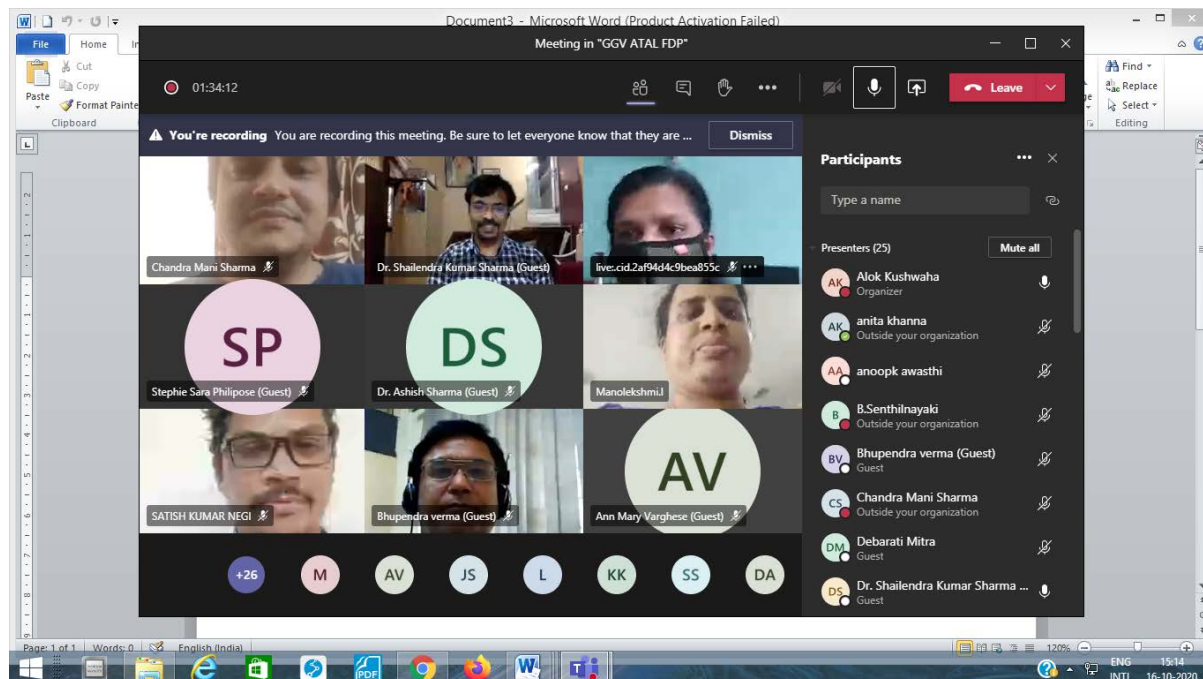
ATAL workshop on Data Sciences

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



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It was a great Initiative by ATAL Academy. I am thankful to AICTE for giving me this opportunity to conduct online FDP for faculty members of technical institute of India free of cost. I got huge response for registration as well as lots of compliment of arranging the online workshop, content and hands on.