

### AIM and Scope:

This Workshop aims to stimulate the intensity and need of Data Sciences among the teachers, research scholar from different parts of the country. An entire session will be available for participants to discuss individual problems with the experts. Data science is related to Data Mining, Machine Learning, Statistics and Artificial Intelligent. By the end of the program they will be able to understand about the topic and its real time implementation using various tools (Python, Weka, Orange etc.).

### Topics to be covered:

Some salient topics to be covered...

1. Introduction to Data Science
2. Supervised Learning- Regression and Classification
3. Deep Learning
4. Introduction to Python and Hands-on Session on Various Machine Learning Techniques
5. Hands-on Session on Video Object Classification

### Who Should Attend?

Faculty Members and Research Scholar from AICTE approved Institutions are eligible for the workshop.

### Resource Persons:

The Sessions will be handled by the experts on the subject from Industry and from Various IITs /NITs, Central Universities and R&D Labs.

### PATRON:

Prof. Kshiti Bhusan Das  
Honourable Vice Chancellor  
Central University of Jharkhand

### CONVENOR:

Prof. Arun Kumar Padhy  
Dean, School of Natural Sciences, CUJ

### ADVISORY COMMITTEE:

Prof. Sarang Medhekar, Professor, DoP  
Prof. Ajai Singh Professor, DoWE  
Prof. Ratnesh Vishvaksen, Prof. & Head, DoH  
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Dr. G. P. Singh, Head, DoNT  
Dr. Bateshwar Singh, Assoc. Prof., DoC&FS  
Dr. Dharmendra Singh, Head, DoP

### COORDINATORS:

Prof. (Dr). Subhash Chandra Yadav  
Professor & Head, DCST  
Dr. Prashant Prashun (Asst. Prof., DCST)  
Dr. Kanojia S. Babulal(Asst. Prof., DCST)  
Mr. Pushpendra Kumar (Asst. Prof., DCST)

### ORGANIZING COMMITTEE:

Mr. Deepak Kumar Patel  
Mr. Saurabh Kumar

### Address for Correspondence

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One Week FDP  
on  
Data Analytics and Machine Learning  
(20<sup>th</sup> -24<sup>th</sup> September 2021)



Sponsored by  
AICTE Training and Learning (ATAL) Academy  
Programmes



Technical Collaboration  
Division V (Education & Research)



Organized by  
Department of Computer Science &  
Technology(DCST)  
<http://cuja.ac.in/dcst/index.php>  
Central University of Jharkhand (CUJ)  
Ratu-Lohardaga Road, Ranchi, Jharkhand

**FIVE Day Workshop  
on  
Data Analytics and Machine Learning  
(20<sup>th</sup> -24<sup>th</sup> September 2021)**

1. The FDP will be organised online using Google Meet.
2. The session of the Five days FDP will be live streamed on YouTube and on Google as well.

**Registration Process:**

Please sign up through:

<https://www.aicte-india.org/atal>

1. Click on Workshop tab
2. Select state: "**Jharkhand**", Month: "**September**", Thrust Area: **Thrust Areas**  
You will get Institute Name: **Central University of Jharkhand**, Application Number: **1614755858**
3. Click on "+" Button to register
4. Participants can check registration by clicking on Applied Workshops

**Last Date of Registration: 10 September 2021.**

**Number of Candidate:**

Maximum 150 participants may be allowed to attend online FDP on a first come first serve basis as per the selection rules of AICTE

**Selection Procedure:** As per the AICTE guidelines.

**Registration fee:** Free of Cost.

**About The University CUJ:**

The Central University of Jharkhand was established through the Central University Act, 2009. The University started with a vision to specially focus on relevant present age educational drives offering 5-year integrated (UG/PG), Post graduate and Ph.D. programmes in almost all its Schools/ Departments of studies. The University is running in a Lush green temporary campus located in a natural landscape of Ranchi.

**About the Department CST:**

The Department of Computer Science and Technology has been started in 2018 under the school of Natural Sciences. The department offers PG program, M. Tech (Computer Science and Technology) and Doctoral Program (PhD). It is the department's ambition to be internationally recognized as a leader in computer science and technology, a department with coherent activities within research, education, development and industry cooperation.

**How to Reach CUJ:**

Ranchi is well connected by Roadways, Train and Airlines. City has two major railway stations 'Ranchi Railway Station' and 'Hatia Railway

Station'. The city has also one airport (domestic) 'Birsra Munda Airport' and directly linked with major cities of India. From station, airport, and bus stand first reach Ratu road auto stand and take an auto for Brambe.

**About AICTE Training and Learning (ATAL) Academy**

AICTE is committed for development of quality technical education in the country by initiating various schemes launched by Govt. of India, MHRD Council understand that there is a need of the day 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. Accordingly, it was decided to the opening of AICTE Training And- Learning - (ATAL) Academies. As a part of its activities, AICTE Training and Learning (ATAL) Academy will conduct its programme from 20<sup>th</sup> -24<sup>th</sup> September 2021 at Central University of Jharkhand, Ranchi.



# Central University of Jharkhand, Ranchi-835205

## Department of Computer Science and Technology

One Week FDP

on

Data Analytics and Machine Learning

20th -24th September 2021

### Programme Schedule

DATE	TIME	DETAILS
20-09-2021	09:00AM – 09:45 AM	INAUGURAL FUNCTION
	09:45 AM– 11:45 AM	Introduction on Data Analytic: Challenges and Issues in Data Analytics. (AKN)
	11:45-12:45 PM	BREAK
	12:45 - 02:45 PM	Fundamental of Data Science (PKM)
	02:45-03:00 PM	BREAK
	03:00 – 05:00 PM	Solving real life problem using Data Science (SKS)



Dates	09:45 - 11:45 AM	11:45 to 12.00 PM	12.00 to 2.00 PM	02:00 to 3:00 PM	03:00 to 5.00 PM
21-09-2021	Introduction to Machine Learning and Deep Learning (KSB)	<b>Break</b>	Regression Analysis: Linear and Nonlinear Regression (DKY)	<b>Break</b>	Decision Tree Classifier with Hands-on Session (PK)
22-09-2021	Knowledge Acquisition Process of an Expert System(KRS)		Sentiment Analysis using Machine Learning Techniques (DSR)		Rise of AI and data science: Impacting our daily life (AKS)
23-09-2021	Soft set based data analytics (RSY)		AI in healthcare for the next centuries: (PP)		Image Classification using CNN, RNN and LSTM with Hands-on Session (CS)
24-09-2021	Hands-on Session on Video Object Classification (AKSW)		Optimization Techniques (AKh)		Feedback and Assessment

### Speaker Details:

**AKN:** Prof. A.K. Nayak, IIP, National Chairman Academic & Awards Committee-CSI and **Director IIBM & ZHI**

**PKM:** Dr. Pramod Kumar Mishra, **Professor**, Department of Computer Science, **BHU, Varanasi**.

**SKS:** Prof. Sanjay Kumar Singh, **Professor**, Department of Computer Science & Engineering, **IIT BHU, Varanasi**.

**KBS:** Dr. Kanojia Sindhuben Babulal, **Assistant Professor**, Department of Computer Science & Technology, **CUJ, Ranchi**.

**DKY:** Prof. Dilip Kumar Yadav, **Professor & Head**, Department of Computer Applications, **NIT Jamshedpur**.

**PK:** MR. Pushpendra Kumar, **Assistant Professor**, Department of Computer Science & Technology, **CUJ, Ranchi**.

**KRS:** Dr. Khumukcham Robindro Singh, **Assistant Professor**, Department of Computer Science, **Manipur University, Imphal, Manipur**.

**DSR:** Dr. Dharmendra Singh Rajput, **Associate Professor**, Vellore Institute of Technology, **Vellore, India**.

**AKS:** Mr. Abhishek Kumar Singh, **Director (operation) Accenture, New Delhi**

**RSY:** Dr. Ramjeet Singh Yadav, **Assistant Professor**, Dept. of Computer Application, Dr. Ram Manohar Lohia Avadh University, **UP**.

**PP:** Dr. Prashant Prashun, **Assistant Professor**, Department of Computer Science & Technology, **CUJ, Ranchi**.

**CS:** Dr. Chandramani Sharma, **Assistant Professor**, Department of Computer Science and Engineering, **UPES, Dehradun**.

**AKSW:** Dr. Alok Kumar Singh Kushwaha, **Associate Professor & Head**, Department of Computer Science and Engineering, **Guru Ghasidas Vishwavidhyalaya, Bilaspur**.

**AKh:** Dr. Ashish Khare, **Associate Professor**, Department of Electronics and communication, **University of Allahabad, Prayagraj**.