

WORKSHOP
on
DATA SCIENCE

24th- 25th March 2021

Organised by
Dept. of Computer Science & Engineering



ICFAI University, Tripura

Kamalghat, Agartala-Simna Road, Pin 799210, Tripura(W), India
Website: <http://www.iutripura.edu.in> Ph: 0381/2865752/62, Fax: 0381/2865754

Patron

Prof. Biplab Halder

Pro- Vice Chancellor

Chairperson

Dr. A.Ranganath

Registrar

Advisor

Dr. Priyanshu Rana Borthakur

Dean, FST

Convenor

Prof. Abhijit Biswas

HOD, CSE

Resource Person

Mr. Rahul J. Nath

Senior Technical Instructor

Tech Savvy Eduventures Private Limited

Venue

The ICFAI University, Tripura

P.O. – Kamalghat, Sadar

Agartala, Tripura

Pin: 799210

ABOUT THE UNIVERSITY:

The ICFAI University, Tripura (referred to hereafter as the University) was established in 2004 through an Act of State Legislature (Tripura Act 8 of 2004). The University has been approved by the University Grants Commission, under Section 2(f) of the UGC Act, 1956 and the University is empowered to award degrees under Section 22 of UGC Act, 1956.

THE UNIVERSITY IS MEMBER OF THE FOLLOWING:

- Association of Indian Universities, New Delhi, India.
- Association of Commonwealth Universities, London, UK.
- Institution of Engineers (India).
- Association of Management Development Institutions in South Asia (AMDISA).
- Department of Scientific and Industrial Research, Ministry of Science and Technology, Govt. of India
- Confederation of Indian Industry (CII).
- Vijnana Bharati.
- Academy of Hospital Administration, Govt. of India.

ACCREDITATIONS:

The University has the following accreditations of the regulatory authorities:

- University is NAAC Accredited
- University Grant Commission (UGC)
- National Council for Teacher Education (NCTE)
- Bar Council of India (BCI)
- Distance Education Bureau (DEB)
- Rehabilitation Council of India (RCI)

The University, with its motto “Meritum Ethicus” strives to develop a new cadre of professionals with high level of competence and deep sense of moral principles and commitment to the code of professional conduct. The University believes in creating and disseminating knowledge in core and frontier areas through innovative educational programs, research, consulting and publishing, and developing a new cadre of citizens with a high level of competence and a deep sense of ethics and commitment to the code of professional conduct.

REGISTRATION:

Total number of Seats-70

Registration is free for ICFAI University Students. For others, an amount of Rs. 500/- will be charged. Seat will be booked on first cum first serve basis.

CONTACT DETAILS :

Prof. Durgabati Podder
Ph: 8787406104
e-mail : durgabatipodder@iutripura.edu.in

Prof. Debjani Bhowmik
Ph: 9774325660
e-mail : debjani.bhowmik@iutripura.edu.in

AIM AND OBJECTIVE OF THE WORKSHOP

The key objectives of the workshop are:

1. Explore the opportunities and challenges the Data Science in advancements in technology.
2. The real-world implementation of Data Science and path to advanced analytics.
3. The exciting opportunities in Data Science has been creating in the fields of medicine, banking, and finance, retail, logistics, and advertisements. How technology has been impacting the people working in the respective fields.
4. Showcase the skill sets industries are looking for globally, define the gaps in skill sets and illustrate the knowledge the students should acquire to build exciting applications to solve the real business problems.

TENTATIVE SCHEDULE

Session 1

1. Introduction To Data Science
 - a. How much Data is out there?
 - b. What does this “Data” comprise of?
 - c. Why do we need to perform science on this “Data”?
 - d. What is Data Science?

Session 2

2. Steps involved in Data Science
 - a. Decide on the platform you would like to use
 - b. Get an IDE or an CLI compatible with your System
 - c. Get your data/Generate it.
 - d. Filter
 - e. Fix errors, outliers
 - f. Perform your calculations/show your magic
 - g. Performance Analysis
 - h. Visualization
 - i. Saving results

Session 3

3. Walk through a real life Data Science problem through the mind of a data scientist

ORGANIZING COMMITTEE

Prof. Saroj Kumar Nanda , Assistant Professor,CSE.	Member
Dr. Dushyant Dutta , Assistant Professor, CSE.	Member
Prof. Debjani Bhowmik , Assistant Professor, CSE.	Member
Prof. Durgabati Podder , Assistant Professor, CSE.	Member
Prof. Sayantan Singha Roy , Assistant Professor, CSE	Member
Prof. Paromita Goswami , Assistant Professor, CSE.	Member
Prof. Sunirmal Sen, Assistant Professor, CSE.	Member
Prof. Soumen Ghosh, Assistant Professor, CSE.	Member
Prof. Swapan Das, Assistant Professor, CSE.	Member



PROFILE OF THE RESOURCE PERSON

Mr. RAHUL J. NATH

**Senior Technical Instructor
Tech Savvy Eduventures Private Limited**

PROFESSIONAL SKILLS

MACHINE LEARNING SPECIALIST | DATA SCIENTIST

- **Developed a Smart CRM system**

- Smart Marketing Management Tool to assign prioritized leads to best-matched sales person for that task.
- Automated Sales, Invoicing and Billing.
- Automated Customer Support with NLP powered chat-bot.
- Smart Customer Interaction Tracking.
- Automated Employee management tool with payment modules.

- **Developed a smart Co-working offices solution**

- Card Access system with cloud solution.
- Customer ranking system.
- Automated Accounting in accordance with German Accounting Standards.

MASTER THESIS

Knowledge Graph Partitioning to Detect Hidden Scholarly Communities Jan 2018

- Latest Machine Learning algorithms were used for partitioning a semantic knowledge graph of research scholarly metadata from DBLP.
- Similarity Matrices algorithms were used for predicting new literary collaborations.
- A Research paper was published in Springer 2018 Volume 11057 of the Lecture Notes in Computer Science series.
- Research is being continued in Fraunhofer Research Institute, Germany.