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Raman College of Engineering

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Programme Evaluation Committee
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Prof. Priyadarshi Kanungo, Head, ETC
Prof. Rachita Misra, Head, CS & IT

Convenor
Dr. Madhusmita Sahu, CS & IT

Co-convenor
Dr. Ashok Patel, CSE

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Ms. Rituparna Mondal, CSE
Ms.Royalini Priyadarshini, CS & IT
Mr. Subhashish Das Mohapatra, CS & IT
Mr. Surendra Nanda, CSE

Important Dates
Last Date of Registration: 20 Feb 2020

Contact Details
Email: scdsfdp2020@gmail.com
Dr. Madhusmita Sahu Mobile: 9861131244
Dr. Ashok Patel Mobile: 9770890583

Course Contents
The course will cover topics such as:
- Overview of Data Science & AI
- Regression, SVM,
- Dimensionality Issues, PCA
- Clustering Methods
- Naive Bayes Technique
- Decision Tree, Random Forest
- ANN, Perceptron, MLP, BPN
- Issues and Challenges for Deep Learning,
- CNN, Auto Encoders
- Computer Vision
- Bio-Medical Applications
- Industry Applications
- Demo & Hands on with Python / MATLAB

Resource Persons
Lectures will be delivered by eminent faculty members from IITs, NITs and other renowned universities. Experts from Industries will deliver lectures and demonstration of use cases. Hands on practical sessions are included.

Eligibility and Selection
This FDP is open to faculty members, industry employees and researchers. Participants from AICTE approved engineering and polytechnic colleges can join with no registration fee, to be selected based on first come first serve basis Accommodation to out station participants will be provided on request.
Participants from other than AICTE approved engineering and polytechnic colleges need to register with an amount of Rs.1500/- to be paid at the registration desk.

Registration
Participants are required to register online using the following link:
https://forms.gle/fZ8xmWhb7ADSDrYBA
About The Program

Data science, also known as data-driven science, is an interdisciplinary field about scientific methods, processes and systems to extract knowledge or insights from data in various forms, either structured or unstructured similar to data mining. Data science is a multidisciplinary blend of data inference, algorithm development and technology in order to solve analytically complex problems. It employs techniques and theories drawn from many fields within the broad are of mathematics, statistics, information science and computer science in particular from the sub-domains of machine learning, soft computing techniques, pattern recognition, data mining, databases and visualization.

Soft computing, as opposed to traditional computing, deals with approximate models and gives solution to complex real life problems. It refers to the science of reasoning, thinking and deduction that uses various bio-inspired way of identifying, prediction and classification of quantities under study. Soft computing is a modern approach premised on the idea of the approximation, uncertainty, and flexibility similar to real world scenarios. Soft computing is based on techniques derived from analogy to natural phenomena such as human learning, reasoning, theory of evolution, and environmental behaviour of birds and insects. It encompasses identification, classification, prediction, and decision making techniques such as Artificial Neural Network, Fuzzy Decision making, Genetic algorithm and different types of Particle Swarm Optimization.

This FDP is being organized to provide a forum for discussion on theoretical and practical aspects of various machine learning and soft computing techniques in data science. Various applications and research areas involving soft computing and machine learning techniques will be discussed. Hands on exercises on Python and MATLAB will be included.

CVRCE at a Glance

C. V. Raman College of Engineering (CVRCE), Bhubaneswar is a pioneer institute of eastern region, India, setup to impart quality technical education. This institute is approved by the All India Council for Technical Education, and is an autonomous college affiliated to Biju Patnaik University of Technology, Odisha. The institute is also accredited by NBA, rated as grade ‘A’ engineering college by NAAC & ISO 9001-2015 certified. The Department of Scientific and Industrial Research (DSIR), Govt. of India recognised the institution as one of the Scientific and Industrial Research Organisations (SIROs). CVRCE is an active member of IUCCE, FICCI, CII and Indo-German Chamber of Commerce Mumbai.

It offers eleven UG programs, eight PG programs and PhD Programs. The strength of the Institute is its quality education and student achievements in national and international forums. CVRCE has a green campus of over 100 acres with Academic Zones, Hostels, Counselling centre, Library, Placement cell, Technology incubation centre, Canteen, Food zones, Medical & Transportation facilities. CVRCE in collaboration with various industries has set-up several Centres of Excellence in different fields of Engineering to facilitate students for better employability among them:

- Param Supercomputing, IoT and SCADA Lab
- Google Centre of Excellence
- NVIDIA CUDA Teaching Centre
- CoreEL VLSI Centre of Excellence
- Centre of Industrial Robotics
- Centre for Remote Sensing & GIS
- BOSCH Rexroth Centre of Excellence
- SIEMENS Centre of Excellence
- FACT Process Automation Centre
- C. V. Raman Tool Room Training Centre
- HVAC & Refrigeration Centre of Excellence
- Centre of Schneider Electrical
- Centre of TATA Technologies
- World Skill Academy

REGISTRATION FORM

Name: ____________________________
Qualification: ________________________
Designation: ________________________
Department: _________________________
Institution: _________________________
AICTE Approved Institution: Yes / No
Gender: ____________________________
Email: _____________________________
Mobile: _____________________________
Accommodation Required: Yes / No
Food Preference: Veg / Non-Veg

Signature of Candidate with Date

Sponsorship Certificate

Mr./Ms. ____________________________ is an employee/Ph.D. scholar of our institution and he/she will be permitted to attend the program in full, if selected.

Director/Principal/HoD with office seal