PREREQUISITES:

Basic experience in Data Structures and programming using and Python is necessary for doing practical exercises. We assume no prior knowledge in machine learning (as it is an introductory course), however basic knowledge of statistics and linear algebra is helpful.

Resource Person

Mr. Saurabh Ranjan , Data Engineer , Skill-Lync, Chennai

OUTCOME OF WORKSHOP

The participants will get to have an understanding of python libraries and practical exposure to using Data Sets of various categories.

VISION OF THE UNIVERSITY

To be among the best of the institutions for engineers and technologists with attitudes, skills and knowledge and to become an epicentre of creative solutions.

MISSION OF THE UNIVERSITY

To achieve and impart quality education with an emphasis on practical skills and social relevance.

ELIGIBILITY CRITERIA:

Students and Faculties members of University /Institute /Engineering colleges

IMPORTANT DATE

Registration Start Date : 07 Feb, 2023
Registration End Date : 11 Feb, 2023

IMPORTANT DATE

https://forms.gle/MD1vA2vkRa26VCeR7

REGISTRATION FEES:

- Registration Fee Rs.100/-
- The total number of participants is limited to 80.
- The Participants will be selected on a first come first serve basis.
- Selected candidates will be intimated through Email and Confirmation by the participants can be sent to the Coordinators maid id.
- Selected Participants Should Attend Programme for the entire duration through online(Virtual Mode)

- E-Certificate will be provided for all the participants upon the successful completion of the program.
- Participation certificates will be issued to the candidates who attend the Programme in full(80% participation attendance) and minimum score of 60% in the final assessment test conducted at the end of workshop.

PAYMENT DETAILS:-
Dr. Binod Kumar Choudhary
Pay Fees through Google Pay No: +91-9939974038

CHIEF PATRON
Prof. (Dr.) S.S. Razi, ARKA JAIN University, Jharkhand

PATRON
Mr. Amit Kumar Srivastava, Director,
ARKA JAIN University, Jharkhand

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Dr. Angad Tiwary, Director Campus & Dean
Student Welfare, AJU
Dr. Arvind Kumar, Associate Professor & Programme
Co-ordinator, BCA & MCA, AJU

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TECHNICAL COMMITTEE
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Mr Neeraj Kumar, Technical Assistant.
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ARKA JAIN University
Jharkhand

THREE DAYS
National Level Workshop
on
Machine Learning & Application
Across Industries
In Virtual Mode

Date : 13th Feb to 15th Feb 2023

**Department of Engineering
School of Engineering & IT**

**ARKA JAIN UNIVERSITY,
Jharkhand**

ABOUT JGI

JGI Group is an education provider and an entrepreneurship incubator in India. The Group successfully operates 85 educational institutions with 51,600 students and 6,450 employees engaged at the K-12, undergraduate and postgraduate levels spread across 64 campuses pan India. A leader in the education sector and a pioneer in the venture sector, JGI Group are constantly in search of new opportunities to expand its horizon.

About The University

An academic institute ought to set its vision of high noted academic, intellectual and entrepreneurial development. ARKA JAIN University (AJU), Jamshedpur is committed to human development at all levels through education and entrepreneurship. It provides quality education thereby creating human assets for the nation and the globe as well. AJU is a premier private university of Jharkhand with a venerable legacy of the JGI group sprinting ahead for national acclamation for noted academic standards, diverse educational programs, distinguished faculties, varied co- curricular activities and state-of-the-art infrastructures. The University is on the way to sustain the acclaimed standards and best practices in higher education. It is committed to nation building and unflinching adherence to universal university human values. The sprawling university spreads across 25 acres of lush green land leaving no stone unturned in providing state-of- the-art facilities in various sectors including education, sports, entrepreneurship, research, and other academic ventures. The campus of the University is situated at Mohanpur, Gamharia, Dist: Seraikela – Kharsawan, 13 km from the steel city, Jamshedpur. Popularly known as Tatanagar, named after the visionary industrialist Shri J.N.Tata, founder of TATA Groups. The magnificence of the university lies in the enhancement of various courses with leaps and bounds. ARKA JAIN University aids each.

ABOUT ENGINEERING & IT

AJU School of Engineering & Information Technology is established with an aim to provide quality education and entrepreneurship development. ARKA JAIN University is an intellectual destination that draws inspired students from diverse background. AJU Bachelor of Technology (B.Tech) is an AICTE approved professional Engineering undergraduate degree of 4 Years duration program offered in 5 different disciplines. Our B.Tech program offers a variety of programs that involve theoretical and practical learning in equal measure. It is one of the most preferred courses and in great demand by the students looking forward to mould their interest and ambition not only in India but for vacancies abroad aiming for lucrative careers. As this professional course has made developments & created numerous opportunities in the field of engineering and information Technology. The university is committed to provide excellent Academic curriculum, Laboratory facilities, Workshops, Seminars, Assignments, Industrial visits, and Opportunities for various Experiments, Research and Placement support.

ABOUT THE WORKSHOP:

This workshop introduces fundamental concepts of machine learning. It covers an overview of machine learning algorithms and their applications. The training comprises of a series of lectures and practical exercises. The participants obtain deep insights of machine learning, which in turn helps them to apply it in practice or as a foundation to a deeper study in this area.

KEY OBJECTIVE:

This workshop is being organized keeping in mind the growing demand and use of AI and Machine Learning in all aspects of life.

With the advancement in technologies and global paradigm shift from mechanical to more system based applications makes it more applicable for one and all to have the skills and understanding about the applications of Machine Learning in various fields.

TOPICS INCLUDE:

1st Day Workshop :

- Essential Python libraries
- Numeric and scientific Computing using Numpy
- Data Analysis using Pandas
- Data Visualization using Seaborn and Matplotlib
- Exploratory Data Analysis (EDA)
- Machine Learning Library Scikit-learn

2nd Day Workshop :

- Machine learning algorithms Implemented using Python.
- Linear Regression
- Logistic Regression
- Decision Tree
- SVM
- Naïve Bayes
- KNN
- K-Means Clustering
- Random Forest
- PCA
- Neural network implementation using TensorFlow

3rd Day Workshop :

- Important concept of Computer Vision
- Computer Vision Using OpenCV
- Computer Vision for Custom Object Detection
- Application of Computer Vision in different Industries

TARGET AUDIENCE:

All the interested Faculty, Staffs and students of ARKA Jain University and other universities, industry experts, research scholars, enthusiastic learners can participate in the event.