



**AICTE TRAINING AND LEARNING (ATAL)
SPONSORED
ONE WEEK FACULTY DEVELOPMENT
PROGRAMME (OFFLINE)
(Application Number: 1691397862)**

On

Data Analysis & it's Applications

(Hands on Experience using Python)

20th November, 2023 – 25th November, 2023



Organized by:

IILM University, Gurugram, Haryana- 132001

Plot No. 69-71, Golf Course Road Sector 53, Gurugram, Haryana

Visit us: www.iilm.edu

Registration Link: [ATAL - AICTE Training and Learning \(ATAL\) Academy \(aicte-india.org\)](http://ATAL - AICTE Training and Learning (ATAL) Academy (aicte-india.org))

About University:

IILM University offers a holistic and integrated approach to learning across a broad range of subjects of; Liberal Arts, Management, Law, and Engineering. Our global and national outreach supports us by over 30 academic collaborations. We aim to nurture the next generation of thought leaders as engaged citizens adding meaningful contributions to the society. IILM has a strong alumni network of more than 16000+ alumni. Their success stories play a pivot role in making IILM as a preferred choice for students of Delhi NCR and other parts of the country. The IILM Educational group was founded by Ram Krishnan and Sons Charitable Trust in 1993. With more than 30 years of experience in training future entrepreneurs and leaders, it has emerged as one of the distinguished Universities in Delhi NCR. The University has been set up under the Haryana Private Universities (Amendment) Act, 2018 (Haryana Act No. 10 of 2018).

The educational group has another campus in Greater Noida that was recognized as University on June 3, 2022 under the Uttar Pradesh Private University (Amendment) Act 2022, which focuses on fields such as Computer Science and Engineering, Technology, Innovation and Entrepreneurship. It is located in 16-18 Knowledge Park II Greater Noida, with a built-up area of over 26 acres.

About Department

School of Management at IILM prepares the responsible business leaders to embrace paradigm and disruptive changes happening due to political, regulatory and any other major developments. Following a blended learning pedagogy IILM has carved a niche for itself in pedagogical innovation and experiential learning opportunities, thereby facilitating in the holistic development of the students. With the objective of inculcating value-based education, the focus is on Student Outreach, Engagement and Achievement. School of Management at IILM has a rich intellectual capital of highly experienced faculty who engage themselves in continuous teaching, research and knowledge creation and dissemination. The curriculum at IILM is globally benchmarked and there is extensive use of contemporary technology in the classroom. Industry professionals are involved at various stages-from feedback on industry relevant curriculum, guest sessions, round-tables, seminars, webinars, internship panels and conferences on campus. It also has a strong alumni base of 12,000-plus students, who act as role models and inspire the students to build a necessary attitude for success. The curriculum enables students to hone their decision-making skills and allows them to apply their knowledge to worthy ideas. IILM is a Champion of “Principles of Responsible Management Education” (PRME), which is part of a program called ‘Global

Compact' by The United Nations. This initiative tries to orient management education towards responsible management to create tomorrow's business leaders who focus not on profit alone but also for societal benefit and sustainable development. This is also the guiding principle in IILM's overall mission to create responsible managers through innovative and engaging management education.

About ATAL Faculty Development Program (FDP)

ATAL Sponsored Faculty Development Program on Data Analysis & its applications aims to empower management, engineering, and social science faculties, researchers, and industry practitioners. The main goal is to make familiar and enhance participants' understanding of Data Science concepts and their applications across diverse domains.

With a focus on Data Science's various modules, the program addresses its pivotal role in multiple industries and its high demand in the computer science field. The FDP facilitates interaction between data science researchers and academics, offering a platform to explore recent advancements and learn data science through diverse analytics tools. This program may be beneficial to Faculty members & Research Scholars who intend to practice/begin research in the field of processing and analysis of data using advance techniques such as AI/ML/DL etc. Expert lectures will be delivered by faculty members from academia & Industry.

Objectives of the Program

- a) To make the participants familiar with the state-of-the-art technologies in Data science and information retrieval techniques.
- b) To make them understand about advanced data analysis techniques such as AI / ML / DL.
- c) To understand the techniques used in extracting valuable insights from vast amount of heterogeneous data using Data Science techniques
- d) To develop the ability to build and assess data- based models.
- e) Analyze and solve various inter-disciplinary problems

Outcomes: By the end of the FDP participants will be able to:

- a) Understand the basics of data science techniques such as classification/regression techniques.
- b) Understand evaluation procedures through supervised, unsupervised learning, and reinforcement learning.

- c) Learn dimension reduction techniques to develop a relevant and useful model.
- d) Validation and verification of the developed model applicable to real life problems.
- e) There are Hands-on sessions (using Python) to make familiar with topics.

Pedagogy

- a) Class room sessions with hands-on practice on software
- b) Learning the best practices from industry using discussion on various case studies.
- c) Handouts and demonstration videos

Resource Persons

Academicians from premier institutions of repute, experts from Industry as well as R&D organizations having expertise in the domain are invited as resource person for this program.

Program Schedule

Day-1 (Monday) 20.11.23	Day-2 (Tuesday) 21.11.23	Day-3 (Wednesday) 22.11.23	Day-4 (Thursday) 23.11.23	Day-5 (Friday) 24.11.23	Day-6 (Saturday) 25.11.23
9:00AM – 9:30 AM					
INAUGURAL SESSION					
9:30 AM-12:00 PM Session I	9:30 AM- 12:00 PM Session III	9:30 AM- 12:00 PM Session V	9:30 AM- 12:00 PM Session VIII	9:30 AM- 12:00 PM Session XI	9:30 AM- 12:00 PM Session XIV
Mystic world of Data Science & Tools for Data Science	Demystify Machine Learning (Supervised, unsupervised, reinforcement learning & related algorithms)	Principal component analysis, Factor analysis followed by Article discussion	Mathematics for Data Science	AI and ML for Biomedical Research	Data Science - Reliability Analysis
12:00PM – 1:00 PM	12:00PM – 1:00 PM	12:00PM – 1:00 PM	12:00PM – 1:00 PM	12:00PM – 1:00 PM	12:00PM – 1:00 PM
Data Visualization	Hands on: Python (Unsupervised and Supervised Methods)	Session VI NEP 2020- Implementation & Challenges	Session IX Hands on- Python	Session XII Article Discussion	Session XV RealTime Applications- Supervised Learning Methods: Regression and its classification
Lunch 1:00PM-2:00PM	Lunch 1:00PM-2:00PM	Lunch 1:00PM-2:00PM	Lunch 1:00PM-2:00PM	Lunch 1:00PM-2:00PM	Lunch 1:00PM-2PM
Session II 2:00PM-4:30PM	Session IV 2:00PM-4:30PM	Session VII 2:00PM-4:30PM	Session X 2:00PM-4:30PM	Session XIII 2:00PM-4:30PM	2:00PM-3:00PM

Python for DataScience	Big Data, Deep Learning, ML for development of models	Statistics for Data Science	Data Clustering & Clustering algorithms	Data Science in HealthCare	Hands on-Regression & classification
Practical Session 4:30 PM – 5:30 PM	Practical Session 4:30 PM – 5:30 PM	Practical Session 4:30 PM – 5:30 PM	Practical Session 4:30 PM – 5:30 PM	Practical Session 4:30 PM – 5:30 PM	3:00 PM – 5:00 PM
Hands on-Python	Hands on-Python	Projects on Data Science using Python	Hands on-Python	Data Visualization & Hands on Lab session	Reflection journal MCQ, Feedback & Interaction
					5:00PM – 5:30 PM
					Valedictory

Who may participate

Academicians / Research scholars / Industry practitioners / Bureaucrats / School teachers / Staff of home institution nominated by Director

Fees

FDP will be free for all participants

Chief Patron:

Dr. S. Y. Quraishi Chancellor, IILM University Gurugram (Former Chief Election Commissioner of India)

Patron (s):

Prof. (Dr.) Shailesh Gandhi Pro-Chancellor, IILM University, Gurugram (Former Dean (Programmes) at IIM Ahmedabad)

Prof. (Dr.) P. Dwarkanath Pro-Chancellor, IILM University Gurugram. (Director, Group Human Capital, Max India Ltd)

Prof. (Dr.) Ranbir Singh Pro-Chancellor, IILM University Gurugram. (Founder and former Vice-Chancellor of NALSAR Hyderabad and National Law University Delhi)

Prof. (Dr.) Sujata Shahi Vice-Chancellor, IILM University Gurugram

Prof. (Dr.) Arvind Chaturvedi Director, School of Management, IILM University Gurugram

Coordinator: Dr Manisha Joshi, Dean, IILM University

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Co-Coordinator: Dr. Hima Gupta, Professor, IILM University

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Registration fee: Free

Registration link:

[ATAL - AICTE Training and Learning \(ATAL\) Academy \(aikte-india.org\)](http://aikte-india.org)