



Executive Certificate Program in  
**Artificial Intelligence and  
Machine Learning**

From SPJIMR



# Program Objective

## Get Your Hands On Artificial Intelligence & Machine Learning To Decode Data

The future of business industry is visualized as a combination of refined machines and adaptive software. This has hailed concepts like Artificial Intelligence (AI) and Machine Learning (ML) to consent a business attain rapid success. Business Leaders need to understand the impact they create and the value the users associate with it. Understanding the concepts, principles and the usage to manage future business thus becomes critical.

This executive program in Artificial Intelligence & Machine Learning is immaculate for those who are seeking to understand this domain, its concepts, algorithms and application and aspire to explore how structured knowledge in this area can contribute productively to business objectives.

## Key Takeaways



- Opportunity to earn Certificate of Completion from SPJIMR.
- Program content and structure designed by SPJIMR.
- Hands on practical exposure on trending domains like ML, DL etc.
- Get first hand exposure to tools like R, Python, Weka etc.
- Lectures imparted by eminent faculty from SPJIMR. Guest lectures by Industry experts to provide practical insights into real life applications.

## Why Talentedge

- Fully Online program with online interactive lectures that provides a “real” classroom experience in a “virtual” environment. No isolated learning experience.
- Seamless technology that can transmit lecture videos effectively at home broadband connection of 512 kbps.
- User friendly and easy to use technology interface. No expensive and time consuming software/hardware installations required at your end.
- Virtual classrooms that allow for active interactions with other fellow students and faculty.
- Convenient schedules to suit working professionals.
- In the event that a student misses a LIVE lecture on the Virtual Classroom for reason(s) beyond his/her control, student can request “On Demand” access to the recorded session. Permission may be granted subject to the explicit approval from the individual faculty based on his/her discretion and genuineness of the circumstances.
- TALENTEDGE's Cloud Campus – Students on our virtual social learning platform are provided access to program presentations, projects, case studies, assignments and other reference materials as applicable for specified program. Students can raise questions and doubts either real time during the live class or offline through the Cloud Campus.
- Learn from Anywhere – No need to travel to an institute or training center. Student may learn from the comfort of his/her home.





## Syllabus



### Artificial intelligence

- Concepts, principles
- Evolution
- Cognitive computing



### Machine Learning

- Introduction, Concepts
- Relation with AI
- Processes & their significance
- Practice with examples and datasets



### Algorithms

- Basics
- Introduction to some algorithms
- Usage



### R

- Use of R in ML
- Libraries and their usage
- Practice with datasets



### Deep Learning

- Concepts and Principles
- Running Examples in R



### Python and its position in ML

- Visual Programming
- Its Facilities and Capabilities



### Pre-processing data

- Concepts and Need To Do This
- Facilities Available
- When to Pre-process and Why



### Open source Python

- Practice quick code



### Weka

- Facilities
- Examples



### BOTS

- Developing a Bot
- Building intelligence in Bot



### NLP (Natural Language Processing)

- Concepts



### RPA (Robotic Process Automation)

- Building applications
- RPI

# Who Should Attend

## Department & Business Heads

- Who need first-hand knowledge of areas like AI and ML to understand and stay abreast with analytics

## Senior Leaders

- Who depend on inferences from analyzing complex chunks of data for effective decision making

## Business & Marketing Managers

- Who rely on information from large data, seek structured knowledge & leverage data to predict market trends

## Working Professionals & Executives

- Seeking to understand these upcoming domains better and explore related career options



Eligibility

## Education

- For Indian Participants - Graduates (10+2+3) or Diploma Holders (only 10+2+3) from a recognized university (UGC/AICTE/DEC/AIU/State Government) in any discipline.
- For International Participants - Graduation or equivalent degree from any recognized University or Institution in their respective country.

## Work-Experience

- Minimum of 4 years of work experience

## Prerequisite

- Participants need to have at least 4 GB RAM PC/Laptop with i5 processor
- Windows based PC/Laptop or ability to seamlessly install and run Windows based applications
- Need to be ready to try hands-on practical on their own PCs/Laptops
- Prior coding/programming is not prerequisite, although exposure will be useful
- Participants will be asked to download some of the free softwares as program progresses, also will be required to register with one or more cloud service providers.
- Registered participants will get necessary inputs to do so prior to the beginning of the program.

## Faculty



### Dr. Anil Vaidya

Prof. - Area Head - Information Management (2011 to Present)  
Doctorate (University of Bradford, UK), MBA (University of Akron, USA)

Dr. Anil Vaidya is Professor of Information Management, also holds responsibility as Area Head of 'Information Management' at S. P. Jain Institute of Management & Research (SPJIMR), Mumbai. He has been with SPJIMR since January 2011. Prior to joining SPJIMR he was industry practitioner for 33 years, in CIO roles in MNCs such as Philips, Rhone-Poulenc and Parke-Davis. In Philips he progressed from Country role, as Sr. Director IT, to Cluster Director role to Asia-Pacific role to Global role; was based in Eindhoven, Netherlands, in Philips IT HQ for 3 years.

Post industry career, past 8 years Dr. Vaidya has been a full time Academician, one year with Symbiosis, Pune as Director of SCIT, and after that in Mumbai with SPJIMR since 2011. Earlier he has taught for Mumbai University MMS, MMM, MFM, MIM programs at NMIMS and JBIMS as visiting faculty for 20 years.

Academically, Dr. Vaidya graduated as Doctor of Business Administration from University of Bradford, UK, in 2011. He did his MBA from University of Akron, Ohio, USA, in 1982. He has his bachelor degrees from University of Mumbai; B.Sc. (Mumbai, 1972), B. Sc. (Tech) (Mumbai, 1975). Recently he completed his LLB from University of Mumbai (2013-2016) to consolidate his law base in Cyberlaws. Dr. Vaidya also holds global certifications from ISACA viz. CISA and CISM. He is also certified as ITSM.

## Pedagogy

The primary method of instruction will be through a combination of LIVE and recorded lectures that will be beamed online via internet to student desktops/laptops or classrooms. The lectures will be delivered by multiple eminent faculty from SPJIMR as well as Guest speakers from the industry. The approach to pedagogy combines live lectures, application exercises with hands-on practice for some sessions and instrumented feedback with a strong emphasis on concepts and theory.

All enrolled students will also be provided access to SLIQ, Talentedge's Cloud Campus, through which students may access other learning aids, reference materials and assessments, case studies, projects and assignments as appropriate. Throughout the duration of the program, students will have the flexibility to reach out to the Professors, real time during the Live classes or offline via SLIQ to raise questions and clear their doubts.



## ***Assessment & Certification***

A minimum of 70% attendance to the LIVE lectures is a prerequisite for the successful completion of this program. There are periodic evaluations built in throughout the duration of the program. These may be in the form of a quiz, assignment, project, case studies or other objective/subjective assessments. The evaluations are designed to ensure continuous participant engagement with the program and encourage learning. Participants who successfully complete the same along with the requisite attendance criteria, will be awarded a certificate of completion by XLRI. Participants who are unable to clear the evaluation criteria but have the requisite attendance will be awarded a participation certificate by XLRI.

## ***Program Details***

- Program Commencement: 7 April 2019
- Schedule of Classes: 3 hours every 2nd and 4th Saturday from 10.00 am to 1.00 pm IST and every 1st, 3rd, 5th Sunday from 10.00 am to 1.00 pm IST.
- Duration: 5 Months
- For Indian Participants: INR 60,000 + GST
- For International Participants: USD 1400
- Instalment options available

## ***How to Apply***

For admissions, students can register at [www.talentedge.in](http://www.talentedge.in)





**For More Details**

Write in to - [enquiry.dtd@talentedge.in](mailto:enquiry.dtd@talentedge.in) or call at +91-8376000600  
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