

IMED- Where Dreams Become Reality



FDP Objectives:

- To conceptualize the basic ideas and techniques underlying the design of intelligent systems.
- To make participants understand and Explore the mechanism of mind that enable intelligent thought and action.
- To make participants understand how to deal with uncertain and incomplete information.

Dr. Shyam Shukla

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FDP Outcomes:

- Ability to develop a basic understanding of AI, Deep & Machine learning
- Ability to analyze the strength and weaknesses of AI approaches to knowledge-intensive problem solving.
- Ability to design and develop the AI applications in class room scenario.
- Replicate the knowledge of AI, Deep and Machine learning with students.

Dr. Sachin S. Vernekar

Dean FMS, BVDU, Director-IMED, Pune

CHAIRPERSON

ORGANISING TEAM

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INSTITUTE OF MANAGEMENT AND ENTREPRENEURSHIP DEVELOPMENT, PUNE



Ranked among Top-75 B-Schools in India by NIRF 2020 MHRD Govt. of India
Ranked among Top-25 Institutes in India by Outlook



AICTE TRAINING AND LEARNING (ATAL) ACADEMY ONLINE FACULTY DEVELOPMENT PROGRAMME

ON

"THE MASTER CLASS"

ARTIFICIAL INTELLIGENCE AND DEEP LEARNING

31st MAY - 4th JUNE 2021



Dr. Patangraoji Kadam
Founder, Bharati Vidyapeeth, Pune

Our Patrons

Hon'ble Prof. Dr. Shivajirao Kadam
Chancellor,
Bharati Vidyapeeth
(Deemed to be University), Pune

Hon'ble Dr. Vishwajeet Kadam
Secretary, Bharati Vidyapeeth
Pro Vice Chancellor,
Bharati Vidyapeeth (Deemed to be University), Pune

Hon'ble Dr. Manikrao Salunkhe
Vice Chancellor,
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REGISTRATION LINK: ATAL PORTAL

<https://atalacademy.aicte-india.org/signup>

PARTICIPANT REGISTRATION IS MANDATORY ON ATAL PORTAL

FOR REGISTRATION, CLICK ON ABOVE LINK OR SCAN THE QR CODE

Who can register:

The faculty members of the AICTE approved institutions,
Research Scholars, Participants from Government and Industry.

IMED LINK (FOR SUPPORT) <https://bit.ly/3uEqNFf>



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Deep-learning architectures such as deep neural networks, deep belief networks, recurrent neural networks and convolutional neural networks have been applied to fields including computer vision, machine vision, speech recognition, natural language processing, audio recognition, social network filtering, machine translation, bioinformatics, drug design, medical image analysis, material inspection and board game programs, where they have produced results comparable to and in some cases surpassing human expert performance.

In present context it has become essential for management faculty members to understand and leverage the advantages of AI and machine learning and in turn empower their students.

In this 05 days Faculty Development Program, the following contents are covered :-

FIVE DAYS (31st MAY - 4th JUNE 2021)

DAY 1

Inaugural • Introduction to AI • Artificial Intelligence & Machine Learning • AI/ML project workflow Class room, real life examples • Introduction to Python implementation • Open source visual programming tools • Orange or Knime or Rapidminer

DAY 2

• Introduction to regression modelling • Modeling concept • Error metric - SSE, MSE, R Squared • Least Square algorithm • Gradient Descent Algorithm • Dummy variables • Use case - Predicting the worth of a used car (car-dekho dataset) in Python/Orange

DAY 3

• Introduction to Classification Models • Error Metrics: Accuracy Score • Confusion Matrix • Type1 and Type 2 errors Decision boundaries • Decision Trees • Random Forest • Use case - Predicting candidate joining (HR analytics) in Python/Orange

DAY 4

• Introduction to clustering • Distance measures • Error metrics • Analysing cluster outputs • Agglomerative hierarchical method • Dendrogram cutting for obtaining clusters • K means clustering • Use case - Brain MRI image segmentation (Healthcare) in Python/Orange

DAY 5

• Neural network architecture • Activation Functions • How does a neural network learn? • Stochastic Gradient Descent • Back Propagation • Artificial Neural Networks in Keras • Introduction to CNN, RNN and LSTM • Use case - Eyewear recognition in Python • Valedictory

Bharati Vidyapeeth, parent body of Bharati Vidyapeeth (Deemed to be University) Pune, was established in May, 1964 by Dr. Patangraoji Kadam with the clear objective of bringing about intellectual awakening and all round development of the young generation through dynamic education. Bharati Vidyapeeth proudly boasts of having the privilege of 182 Educational Institutes of academic excellence under its wings, imparting education from pre-primary to research level. The university was accredited with 'A+' grade by NAAC in 2017. The Ministry of HRD Govt. of India has awarded 'A' Grade status to the University. Ranked 63rd among Top 100 Universities in India by NIRF 2020 MHRD Govt. Of India

IMED (Institute of Management and Entrepreneurship Development) is one of the premier management institutes located at Pune and a constituent unit of Bharati Vidyapeeth (Deemed to be University). NIRF 2020, MHRD, Govt. of India ranked IMED 63rd among Top 75 B-Schools in India. IMED has been ranked among Top 75 B-Schools in India consistently for the past five years. IMED is one of the only Two in Pune and One of the only 10 Institutes in Maharashtra ranked in Top 75 by NIRF, MHRD, Govt. of India. IMED offers two years full time post graduate management programme i.e. MBA & MBA(HR) with multiple specializations relevant to industries. It is also a centre for Post Graduate Research.

To know more about IMED , Scan the QR Code



ABOUT FDP

A master class is a class given to students of a particular discipline by an expert of that discipline; usually music, but also management, science, painting, drama, games, or on any other occasion where skills are being developed. In current academic and industry scenario, there is a need for faculty members to understand the basics of Artificial Intelligence tools which can help them to conduct their master classes with lot of enriched knowledge and data, in all epidemic, climatic and geographical situations.

Artificial intelligence (AI) can be described as intelligence demonstrated by machines, unlike the natural intelligence displayed by humans and animals, which involves consciousness and emotionality. The distinction between the former and the latter categories is often revealed by the acronym chosen. 'Strong' AI is usually labelled as AGI (Artificial General Intelligence) while attempts to emulate 'natural' intelligence have been called ABI (Artificial Biological Intelligence). Leading AI textbooks define the field as the study of "intelligent agents": any device that perceives its environment and takes actions that maximize its chance of successfully achieving its goals.

Colloquially, the term "artificial intelligence" is often used to describe machines (or computers) that mimic "cognitive" functions that humans associate with the human mind, such as "learning" and "problem solving". In AI through Deep learning which is also known as deep structured learning is part of a broader family of machine learning methods based on artificial neural networks with representation learning. Learning can be supervised, semi-supervised or unsupervised.