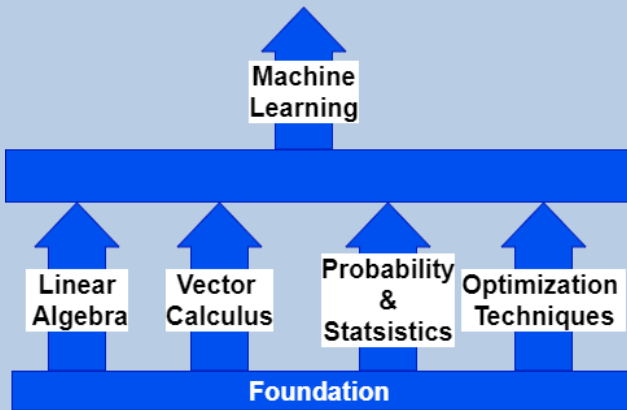




AICTE Training and Learning (ATAL)
Academy sponsored Five-day Online FDP
on

“Mathematics for Machine Learning (MML)”

18th – 22nd January 2021



Organized by

Department of Information Science and Engineering



Sri Jayachamarajendra College of Engineering JSS Technical
Institutions campus
Mysuru — 570006, INDIA

Chief Patron

His Holiness

Sri Sri Sri Shivarathri Deshikendra Swamiji

President, JSS Mahavidyapeetha, Mysuru

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Dr. D S Vinod

HoD, Dept. of IS&E, Mysuru

Organizing Co-coordinator

Prof. T N Nagabhushan, ME (IISc), Ph.D. (IISc)

Dept. of ISE, SJCE, Mysuru

Course Objectives

Machine Learning (ML) has emerged as a most powerful tool in recent times which is supporting the development of intelligent machines. Many applications are being developed using the ML algorithms, which are currently available. One of the significant points to note is that, the user does not understand the mathematical dynamics that are actually taking place when the ML algorithms operate on the data. This is going to create a void in the future, since the mathematical aspects of the learning algorithms is very critical to the point of view in the

improvement of ML algorithms as well as the development of newer architectures.

For the first time an effort is made through ATAL FDP to show the physics of mathematics that is involved in a typical neural network model. The course process the essential components of four pillars of mathematics.

- Linear Algebra
- Vector Calculus
- Probability and Statistics
- Optimization techniques

The above topics would be covered from the basics and are linked to the working of a typical learning process of supervised learning architectures.

Learning Outcomes

- The participants will understand the dynamics of different mathematical components in relation to the learning process in neural architectures.
- They will develop sound background to conduct research in improving existing learning algorithms
- They will also be able to define problems on developing new ML algorithms

Who can Register?

Researchers, Faculty members, Industry personnel & PG Students interested in pursuing research in emerging or futuristic areas of Speech and Natural Language Processing.

FREE REGISTRATION

Online Registration Link

<https://www.aicte-india.org/atal>

Important Dates

Last date for receipt of application online:
January 11th 2021

Intimation of selection (by Email):
January 15th, 2021

Major Objectives of ATAL Academy

- To set up an Academy which will plan and help in imparting quality technical education in the country.
- To support technical institutions in fostering research, innovation and entrepreneurship through training.
- To stress upon empowering technical teachers & technicians using Information & Communication Technology.
- To provide a variety of opportunities for training and exchange of experiences. Such as workshops, Orientations, learning communities, peer mentoring and other faculty development programmes.

Sri Jayachamarajendra College of Engineering (SJCE)

Sri Jayachamarajendra College of Engineering (SJCE), established in 1963, is the dream child of Jagadguru Dr. Sri Shivarathri Rajendra Mahaswamigalavaru, the 23rd Pontiff of Sri Suttur Mutt. It comes under the aegis of JSSMVP. As one of the leading institutes in India, SJCE has been recognized under the TEQIP and also accredited by National Board of Accreditation (NBA). The institution also has the reputation of academic excellence in professionally oriented programs and equal proficiency in extra-curricular activities, which makes it a lucrative option for students from all over the country.

Dept. of Information Science & Engineering

The Information Science and Engineering program was started in the year 2000 with an approval from AICTE. The department is accredited by National Board of Accreditation (NBA). The department has highly motivated, competent and distinguished faculty. Research is an integral part of departmental activities where all the faculty members are involved. The department has excellent research facilities, which cater to the need of the research

community. The department also offers M. Tech in Data Science and Software Engineering, Bachelor of Engineering in Information Science and Engineering and Bachelor of Engineering in Computer Science in Business System (CSBS).

General Instructions

- This FDP emphasizes learning online with Hands-on experience.
- The certificates shall be issued to those participants who have attended the program with minimum 80% of attendance and 60% marks in the test. Digital certificate will be issued from AICTE, Government of India.
- Participants will be selected based on first come first serve basis due to the limit in number of participants.

Contact

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