



*Analytics  
Society of India*

**NCMLAI**  
**26-27**  
**August 2019**

In association with



**2<sup>nd</sup>**

**National Conference**

# Machine Learning and Artificial Intelligence

This National Conference is a collaborative platform for academic experts, researchers and corporate professionals to enrich their knowledge in the automation and analysis of industry and business processes in a smart way.

The two day conference includes plenary sessions, invited talks and paper presentations focusing on the applications of Machine Learning (ML) and Artificial Intelligence (AI) in the fields of Textiles, Engineering, Healthcare, Agriculture, Business, Social Media and other relevant domains.

## Call for papers

Academic experts and corporate professionals are invited to present their original research findings and developed smart solutions using ML/AI for real world problems on broadly (but not limited to) conceived topics, domains and sectors:

Agriculture	Design Thinking	Natural Language Processing
ARIMA / ARIMAX Models	Education	Neural Networks
Bagging/Boosting	Evolutionary Computing	Predictive Analytics
Banking and Insurance	Game Theory	Prescriptive Analytics
Bayesian Regression	Gradient Descent Technique	Principal Component Analysis
Big Data Technologies	Healthcare	Reinforcement Algorithms
Chatbots	Industry 4.0	Retail
Cognitive Science	Machine Learning Algorithm	Robotics
Data Visualization	Manufacturing and Logistics	Social Media
Decision Theory	Market Basket Analytics	Support Vector Machine
Deep Learning	Markov Models	Text Analytics

## Submission

The paper should be original, unpublished contribution and currently not being considered for publication in any journal or conference. Paper shall be in a maximum of 7 pages in IEEE format. Submission of the paper shall be through the conference website - <http://dcal.iimb.ernet.in/NCMLAI2019/> only.

## Publication

Registered papers will be published in the conference proceedings NCMLAI 2019.

## Registration Fee

All presenting authors & co-authors and general participants should register individually. Information on payment procedure is available on conference website.

Category	Amount* (INR)
Student	2250
Faculty/Research Scholar	3750
Corporate Participant	4750

\*Amount is inclusive of GST at 18%  
ASI members are eligible for a 10% concession

# About the Organisers

## Coimbatore Institute of Technology

Coimbatore Institute of Technology (CIT), established in 1956 by V. Rangasamy Naidu Educational Trust to promote Technical and Scientific Literacy has been growing in leaps and bounds to stand FIRST among the Tamil Nadu Engineering Institutions ranking NIRF 2016, Gol in the graduate outcome. CIT is in the forefront of the innovative research by establishing the state-of-art laboratories in nanoscience, IOT, 5G, Energy and Big Data. The forging of research collaborations with learning frontier UK Universities: Imperial College, University of Surrey, University of Warwick on evolving technologies: Industry 4.0, IOT, 5G, Information Security, Big Data, Machine Learning and Artificial Intelligence and with Western Norway University of Applied Sciences, Norway on nanoscience, facilitates the exchange of faculty, researchers and students.

## Department of Computing, CIT

The Department of Computing, established in 1988, the beginning of the era of It revolution to promote Computer Science education has been Instrumental in CIT signing MoUs with Multi National Companies to establish IBM Centre of Excellence for Cloud and High Performance Computing, the Oracle Business Intelligence Centre and Intel's Intelligence System Centre to expose the students to the latest technologies of the day and facilitating the collaborative research.

Guided by a strong team of research bound faculty with expertise in niche fields like Cloud Computing, Mobile Computing, Network Security, Data Analytics, Quantum Computing and Software Engineering, the department offers three concept based unique Five Years Integrated Programmes M.Sc. Software Systems, M.Sc. Data Science, M.Sc. Decision and Computing Sciences.

The innovative project based curriculum with emphasis on practical implementation of the theoretically learned concepts in smart classrooms and the early exposure to research and real-time industrial experience through two full time internships in foreign university research labs and Multinational Industries in India and abroad moulds these graduates to be top-notch software engineers, data scientists and decision makers with prudence of pioneering the solutions to the challenges of the 21st century.

## Data Centre and Analytics Lab, IIM Bangalore

The Data Centre & Analytics Lab (DCAL) is a centre of excellence set up by the Indian Institute of Management, Bangalore (IIMB) in the year 2012. IIMB is one of the first institutions in the country to venture into analytics training in 2010. Housed at IIMB campus, DCAL is a dedicated research, training and consulting lab to support interdisciplinary empirical research using data on Indian and multi-national organisations.

DCAL acts as platform for academia and industry practitioners to collaborate on research project in the field of Analytics and Big data to generate deployable solution to organizational problems. DCAL partners with organizations to develop solutions to problems using statistical techniques and machine learning algorithms. More than 100 projects using descriptive, predictive and prescriptive analytics have been successfully completed by DCAL. More than 30 analytics cases have been published at Harvard Business Publishing's Case Portal.

# Analytics Society of India

Analytics Society of India is the first and largest body of analytics professionals and organisations in India. It is a national level not-for-profit organization founded in 2013 and is housed at the IIMB. ASI has been founded by eminent personalities from IISc and IIMB with an objective of promoting and propagating knowledge in analytics. Various blue-chip corporate organisations, educational institutions and individuals from across the country are members of ASI. ASI provides a platform for organisations and people to come together to share their knowledge in the field of analytics.

It promotes research and application in this domain. ASI regularly organizes workshops, seminars, conferences and technical talks for the benefit of professionals in analytics domain.

## Conference Workshop

24 - 25 August, 2019

### Machine Learning using Python

In this workshop, you will learn the nuances of building supervised and unsupervised machine learning models on real life datasets. We will introduce you to Anaconda framework, Python kernel through Jupyter Notebook for applying some of the statistical and machine learning algorithms.

This workshop is intended to give a holistic understanding on statistical & machine learning and its application using Python platform. The workshop will cover -

- » An introduction to business analytics
- » An introduction to Python platform for data analysis
- » An introduction to supervised machine learning algorithms
- » An introduction to unsupervised machine learning algorithms
- » Understanding of various sampling strategies and its efficacy in learning process
- » An introduction to ensemble methods for handling imbalanced data
- » Gradient descent algorithm and its application in finding the optimal solution
- » Hands-on using the Python code and the real life dataset
- » Introduction to different packages which can be used in Python for making robust and complex machine learning models

Category	Amount* (INR)
Workshop Fee	5750

Limited seats  
Registration on first come basis

\*Amount is inclusive of GST at 18%

For detailed content and payment procedure visit conference website.

Contact: +91 9886100663



# Organizing Committee

## Chief Patron

Dr. S R K Prasad  
Correspondent, CIT

## Patrons

Shri. S Rajiv Rangasamy  
Director, CIT

Dr. R Prabhakar  
Secretary, CIT

## President

Dr. V Selladurai  
Principal, CIT

## Chairpersons

Dr. U Dinesh Kumar  
Professor, IIM Bangalore,  
Chairperson, DCAL

Dr. K Sakthimala  
Head, Department of Computing, CIT

## Bank details

Payments are accepted online through NEFT/IMPS. Cheque/DD can be deposited into bank account as per details below.

Bank Name:	STATE BANK OF INDIA
Bank Address:	IIMB Campus, Bannerghatta Road, Bangalore - 560076
Account Holder Name:	ANALYTICS SOCIETY OF INDIA
Account Number:	64131937991
IFSC:	SBIN0040803
GSTIN:	29AAEAA6169M1Z7

## Conference Co-chairs

Dr. M Mathirajan  
Chief Research Scientists, IISc, Bangalore

Dr. Dhimant Ganatra  
Senior Manager, DCAL | IIM Bangalore

## Conference Secretaries

Dr. A Kannammal,  
Professor,  
Department of Computing, CIT

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Professor,  
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## Programme Chairs

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Department of Computing, CIT

Dr. S Manjula Gandhi,  
Associate Professor,  
Department of Computing, CIT

Dr. D Sudha Devi,  
Associate Professor,  
Department of Computing, CIT

## Dates to remember

Submission of Abstract	19 May, 2019
Notification of Acceptance	26 May, 2019
Submission of Final Paper	14 July, 2019
Payment deadline	21 July, 2019
Registration for Workshop	28 July, 2019



**Venue:**  
Department of Computing  
Coimbatore Institute of Technology  
Coimbatore, Tamil Nadu

## CONTACT



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