



**Analytics
Society of India**



**Institute of
Management Technology**
Ghaziabad, Delhi NCR



Workshop on Deep Learning

25 & 26 April, 2020



Date

25 & 26 April, 2020



Time

9:00 am to 5:00 pm



Venue

IMT - Ghaziabad
Raj Nagar, Ghaziabad,
Uttar Pradesh 201001

Mentored by:



Program Content

Introduction to Deep Learning	Introduction to Deep Learning Representation Learning Difference between ML/DL/AI
Artificial Neural Network	Gradient Descent - Mini-batch and Stochastic Back-propagation; cost function and optimizers Developing deep learning using Keras Regression and Classification using Keras Neural Networks and hyper-parameters
Convolutional Neural Networks (CNN) and Recurrent Neural Networks (RNN)	Overview of Convolutional Neural Network and its applications (Image Analytics) Transfer Learning Overview of Recurrent Neural Network and its applications Natural Language Processing – Word Embedding (Word2Vec, GloVe)
Auto Encoders	Unsupervised Technique using Deep Learning Linear Autoencoder and Stacked Autoencoder Anomaly Detection (Fraud Detection)

Intended Participants

Working professionals, academicians and students with basic knowledge of machine learning and exposure to any programming language, preferably Python. It will also benefit participants already working in Business Analytics/Data Science domain to understand real-life applications of state-of-the-art NLP techniques.

Certification

A certification of participation co-signed by IMT Ghaziabad and Analytics Society of India will be issued to participants who attend the complete duration of the workshop.

Instructor

Naveen Bhansali, A senior solution architect, he has successfully deployed complex Artificial Intelligence and Deep Learning solutions in financial, telecom, insurance and e-commerce industries for clients across Latin America, Europe, Africa and South-east Asia. He has also been playing the role of the senior strategist, by assisting several companies in setting up and grooming their data science and AI team.

Naveen has worked as the Advisory Consultant on AI/ML/Big Data, for Dell-EMC. At Dell-EMC, he has led the analytical vision workshop product in Asia, a consulting engagement for CIOs, CEOs, and leaders.

He is an alumnus of IIM Bangalore and also a guest faculty at IIM Bangalore and Amity University for AI and Deep Learning. As part of these institutions and Analytical Society of India (ASI), he has taken more than 100 sessions and trained more than 1000 professionals.

Analytics Society of India (ASI)

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 by eminent personalities from Indian Institute of Science, Bangalore (IISc) and Indian Institute of Management, Bangalore (IIMB) with an objective of promoting and propagating knowledge in the area of 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 & technical talks for the benefit of professionals.

Data Centre and Analytics Lab (DCAL)

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 a platform for academia and industry practitioners to collaborate on research projects in the field of analytics to generate deployable solution to organizational problems.

About IMT-Ghaziabad

Established in 1980, Institute of Management Technology, Ghaziabad (IMTG) is India's premier AACSB accredited management school with a distinct focus on grooming leadership through Innovation, Execution and Social Responsibility. An autonomous, not-for-profit institute, offering highly sought after postgraduate programmes over the past more than three-and-a-half decades, IMTG currently offers four AICTE approved programmes – Post Graduate Diploma in Management (PGDM) Full Time, PGDM Executive, PGDM Part Time, and PGDM Dual Country Programme (DCP).

IMTG has been consistently ranked among the top management institutes of the country. Today, it is the proud alma mater of more than 300 C-suite executives and thousands of professionals serving in leadership positions in the best known organisations in India and around the world, in key business functions of Sales, Operations, Human Resources, Consulting, Information Technology, Marketing, and Finance among others.



Emerging Technologies Lab (ETB) at IMT(G)

As is well known the past few years have seen extensive investments in business infrastructure which have improved the ability of enterprises to collect data. With vast amount of data now available, companies in almost every industry are striving to exploit data for competitive advantage. Keeping this in view IMT(G) has developed the state of the art Emerging Technologies Lab (ETB) in July 2019.

The vision of the lab is to equip the students of IMT(G) with knowledge and experience in technologies which are likely to impact businesses in the area of artificial intelligence, machine learning, deep learning and business analytics so as to enable them to become better decision makers and managers and stay ahead of the competition.

The mission of the lab is to provide a hands on and stimulating learning environment in the field of artificial intelligence, machine learning, deep learning and business analytics. The lab provides the latest tools in this area such as cloud computing and various frameworks to enable the students to gain in depth understanding of application of artificial and machine learning algorithms to the study of business problems.

The technologies and software available in the lab include Amazon Sagemaker that provides cloud based environment for performing machine learning activities. This environment comprises virtual CPU, S3 storage, GPU's for Deep learning and neural networks.

The lab also provides students with an environment in which they can develop their analytical capabilities with the help of software like:

- scikit-learn/keras framework
- Anaconda framework (Jupyter notebook, spyder etc)
- r-studio
- rattle
- tableau
- radian 6 social studio
- commscore

As students are required to do projects in their areas of interest they acquire understanding of the concepts and skills in data science, data engineering and processing and data driven decision making. In order to encourage students from non-programming backgrounds, easy to understand algorithms packages have been developed so that they can focus on data exploration, visualization and algorithm outputs in a user friendly manner.

The facilities in the lab are being enhanced to cover blockchain, virtual and augmented reality and internet of things (IOT) in the near future.



Registration Fee and Terms & Conditions

- ▶ Workshop fee - INR 7,500 plus GST @ 18% (ASI members are entitled for a discount of INR 1,000)
- ▶ Last date for registration and payment is 11 April, 2020
- ▶ Refunds for cancellations received before 11 April, 2020 will be processed after deducting INR 1,500
- ▶ Fee includes program kit, training material, lunch & refreshments for 2 days
- ▶ Registration form can be filled online from the website – <http://dca.iimb.ernet.in/upcoming-events.html> or scan the below QR Code
- ▶ Certificate will be issued to only those who attend on both days
- ▶ ASI reserves the right to alter or modify the content at its sole discretion
- ▶ For accommodation details and tariff contact - sapna.tyagi@imt.edu

Workshop Essentials

- ▶ Basic knowledge of Machine Learning
- ▶ Working knowledge of Python
- ▶ Laptop and charger; Pen drive

Payment Mode

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, Bangalore - 560076
Account Holder Name	ANALYTICS SOCIETY OF INDIA
Account Number	64131937991
IFSC	SBIN0040803
GSTIN	29AAEAA6169M1Z7

Registration Form



Contact us

+91 80 2699 3822



asi@iimb.ac.in



+91 7204815175 (ASI)

+91 9871533389 (IMT)

+91 9716250110 (IMT)



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Blending Business Context, Technology and Data Science