

**e-ITEC Specialized Programme on Deep Learning (1 Week) 9th to 13th December 2022(Monday - Friday)**  
**Tentative Day wise Schedule - 14:00 HRS - 20:00 HRS (IST)**

<b>Date</b>		<b>14:00-16:00</b>	<b>16:00-17:00 LunchBreak</b>	<b>17:00-20:00</b>
19-Dec-22	Monday	Foundational concept of neural networks and deep learning ,Recurrent Neural Networks, Natural Language Processing & Word Embeddings		Sequence Models & Attention Mechanism Transformer Network
20-Dec-22	Tuesday	Improving Deep Neural Networks: Hyperparameter Tuning, regularization and Optimization Practical Aspects of Deep Learning Optimization Algorithms		Hyperparameter Tuning, Batch Normalization and Programming Frameworks
21-Dec-22	Wednesday	Structuring Machine Learning Projects ML production workflow		time-saving error analysis procedures
22-Dec-22	Thursday	Conventional Neural Networks Foundations of Convolutional Neural Networks Deep Convolutional Models : Case Studies		Object Detection Special Applications : Face recognition & Neural Style Transfer
23-Dec-22	Friday	Deep learning in Economic and Finance Use of Deep learning in Economic and Finance for prediction and classification : time series analysis, image satellites, internet searches ... Sentiment Analysis use cases in public administration: Sentiment classification, Dictionary based sentiment analysis, Aspect based sentiment analysis, Deep learning based sentiment classification		Web scraping, big data streaming download, storage and analysis with spark and Hadoop : Real use cases in Economic and Finance... Presentation of the various experiences already carried out in the field of public finance around the world, in terms of the implementation of deep learning systems. Use case among the experiences presented.