ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP) ON
ML: Theory and Applications
(2nd - 13th December 2024)
Organized by
Electronics & ICT Academy, NIT Warangal
In Association With
Department of EE, International Institute of Information Technology (IIIT) Bhubaneswar
Sponsored by **Ministry of Electronics and Information Technology (MeitY), GoI**

Preamble:

"Electronics & ICT Academy – Phase II" was set up at NIT Warangal with financial assistance from MeitY, GoI. This academy's role is to offer Faculty Development Programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

About the FDP:

The FDP titled **"ML: Theory and Applications** " focuses on integrating academic research with industry needs in Machine learning. It aims to explore practical ML applications across various sectors, emphasizing how academic insights can solve real-world industry challenges. The program would likely cover collaboration models, case studies of ML deployment in industry, and methods to translate cutting-edge ML research into scalable industry solutions. It also aims to build bridges between researchers and practitioners, fostering innovation and practical ML developments.

Major Course Content:

- Introduction to ML
- Representation of Patterns in ML
- Distance and Similarity Measures in ML
- Feature Extraction, Feature Selection, Dimensionality Reduction
- Supervised Learning: Regression and Classification
- Probabilistic Classifiers: Bayes Classifier, Hidden Markov Models
- Decision Trees and Support Vector Machine
- Unsupervised Learning: Clustering
- Deep Learning

Advanced ML and Applications:

- Augmented Reality Research Potential Powered by Deep Learning
- Swarm Intelligence in Optimization and ML
- ML Application for Computer Vision: A Visual Surveillance Approach
- Cardiovascular Disease Detection using ML and DL
- Decentralized ML
- Analysis of Fault in Power System by ML
- Recommendation Systems
- Future Trends in ML for Industry

Faculty Conducting This Programme:

The programme will be conducted by faculty members from NIT Warangal; academicians in the concerned field from IITs/NITs/IIITs are invited to deliver lectures. Speakers from industries are also expected to deliver as part of the course.

Registration Fee Particulars:

Faculty and Research Scholars	Rs. 750/-
Industry Participants	Rs. 2250/-

Participants need to pay the Registration Fee Online using the following details:

Online Transfer Details

Account Name	: **Electronics & ICT Academy NITW**
Account No.	: **62423775910**
IFSC	: **SBIN0020149**
Bank and Branch:	**State Bank of India, NIT(REC) Warangal**

How to apply:
Participants are required to fill the online registration form by clicking on the following link:

https://forms.gle/sRotssp7sFFQmKDC6

Selection Criteria:
Selection will be done based on first-come-first-serve basis to a maximum number of 50 (fifty). Candidates will be issued satisfactory certificates on successful completion of the course.

Important Dates:

Last date (Application)	27.11.2024
Selection List by E- mail	29.11.2024
Duration	2.12.2024 to 13.12.2024

About NIT Warangal:

National Institute of Technology, Warangal, is the first among 17 RECs set up as a joint venture of the Government of India and the state government. Over the years, the college has established itself as a premier Institute imparting technical education of a very high standard, leading to B.Tech degrees in various branches of engineering, M.Tech., and Ph.D. programmes in various specializations. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

About IIIT Bhubaneswar:

The Government of Odisha established the International Institute of Information Technology, Bhubaneswar in 2006. It is designed to be a premier institute of Information Technology and related areas. The Institute has been converted into a unitary university by the Government of Odisha on 20th Jan 2014. IIIT Bhubaneswar offers undergraduate, postgraduate, and doctoral programs, emphasizing hands-on learning, interdisciplinary collaboration, and industry partnerships.

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