

TWO WEEK ONLING PACULTY DEVELOPMENT PROGRAMME (FDP)

Artificial Intelligence and Machine Learning: Real Time Applications

(70 )0- haptember 2011) Organized by

E & ICT Academy, National Institute of Tachnology, Warangal.

Q. Narayanamma Inallitute of Inchantogy and Belance (for Violean) to association with AUTONOMOUS, Slinikpel, Hyderaliad. (Sponsored by Ministry of Riectronics and Information Facturatory (Mainty of Riectronics and Information Facturatory (Mainty)



\* mille

corronics & ICI Academy" was set up at NIT Warangal with financial mance from Men', Gol The jurisdiction of this academy is Telangana, this Pradesh, Karnasala, Goa, Puducherry and Andaman & Nicolist that The academy role is to offer faculty development programmes in nabilities courses and emerging areas of Electronics, Information mount scatton Technologies, training & consultancy acresses for Industry. resulting development for Industry, CITP for working professionals, Advice I suppose for technical incubation and entrepreneurial activities

## out the Workshop:

throology plays a make tole in day to day life activities. To drive a huge prison of consumer, companies are relying on advance algorithms to make ng cause Artificial intelligence and Machine learning are the major haplogies in recent scenario. The advancements in Machine Learning are an exemplary rise in technological industry. The Artificial Intelligence es ahead in descriping a more intelligent computer system that adapts, olio and learns. This has tremendous application in industry, defense, othere, agriculture and many other areas. This FDP will be a platform in ring knowledge in Artificial Intelligence & Machine Learning domains.

por Course Contents:

- Invoduction to Al & ML and its applications in real world
- Introduction to Python (Hands-on)
- Linear Regression
  - Polynomial Regression
- Logistic Regression along with data preprocessing and feature
  - analysis (Hands-on)
- Exploratory data analysis with Scaborn, SVM, Kineans clustering (1)ands-on)
- Bayesian learning, decision tree based classification methods
- Dimensionality reduction methods
- Introduction to Deep learning methods and applications,
- Neural networks and practical implementation
- Sentimental analysis, Dialogue systems (Hands cin)
- Vanishing gradient problem (Hands-on)
- Ensemble modeling techniques
- Reinforcement Learning, Optimization and Data driven Methods
- GAN

culty conducting this programme: e programme will be exciducted in online mode by the faculty members m NIT Warangal, Academicians in the concerned field from NITABITS are invited to deliver lectures in the programme. Speakers in industries are also expected to deliver as part of the course.

itillity:

programme is open to faculty of Engineering Colleges, MCA Colleges other allied disciplines in India Industry personnel working in the comed fallied ducipline can also attend

istration Fre Particulars:

16. 750/- G. Narayan Imma (10 Mis Menusia Strence, 152 The Proposition of the Proposition aculty and Research Scholars Shalkpet, Hyderabad - 500 104. ndustry Participants

The fee is to be paul through coline transfer using the following

Online Transfer Detalle Account State Flectionales & ICT Academy HITW Access No. 62423775910 HSC SHIMONIDIAN Bank and Branch. State Bank of Ladla, SITIREC) Warangal

How to apply:

Participants are required to fill in the Online registration from given in the heliw link https://docums.gle/11/11/AESCA9nUD/2017

Selection Criteria:

Selection will be done based on first-come furtherie base to maximum number of 100. Additionally 10 participants from industry are allowed to participate. The lut of selected participants will : intimated through e-mail Candidates will be usual satisfactor certificates on successful completion of the course Reservations a followed for selecting candidates as per GOI norms

Important dates:

Last date for Registration	14 September, 2021
Selection List by E- mall	17th September, 2021
Duration	20m September -30m September , 2021

# About NIT Warangal:

National Institute of Technology, Warangal is the first among I RECs setup as joint venture of the Government of India and the stagovernment. Over the years the college has established excil as premier Institute imparting technical education of a very high standar leading to the B Tech degrees in various branches of engineers M.Tech and Ph D programs in various specializations. All B. Teand M. Tech programmes of NIT Warangal are NBA accredited

## About GNITS:

G Natayanamma Institute of Technology & Science (For Women) leading engineering cullege in Hyderabad for women featified by L. Sri G. Pulla Reddy Garu in 1997, with the objective of providing excellent learning facility for women to pursue reaction engineering. The untilute aims to promote Technical falueat among Women to enhance and build-up a new generation of thursinnuvators and planners in the technical realms of Science Technology GNITS received UGC autonomous status for 10 ye from 2018 and is uffiliated to INTU-II, Hyderabad It is appreced AICTH, secretated by NAAC & NRA (AICTE) College has 202 . G. Narayan mma Institute Menuta Science. OL Trace PG courses (CSE, DECE, W. qualified and committed faculty members out of which 50

G. Narayanamma Institute of Technology & Science (for woman) (AUTONOMOUS) Shaikpet, Hyderabad - 500 10

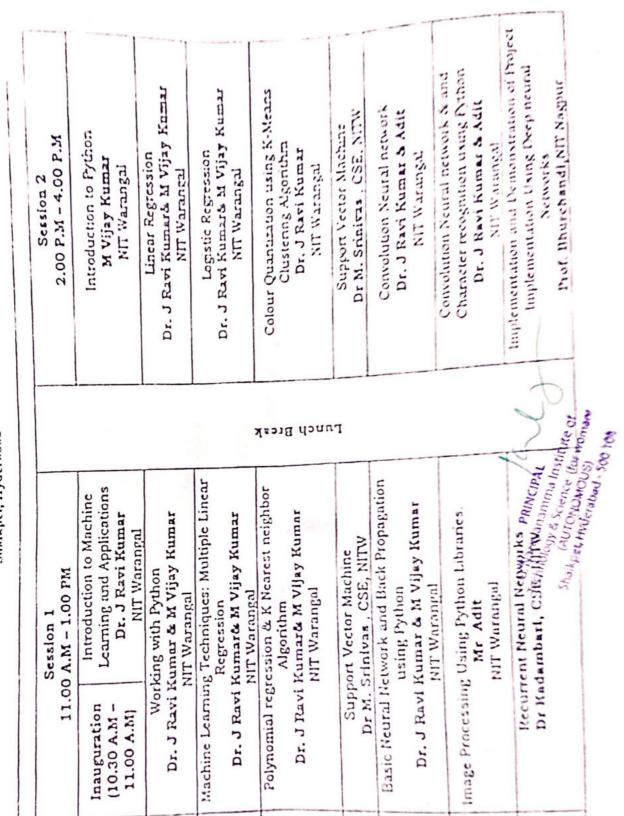
# 40 Hrs Shline FACULTY DEVELOPMENT ACCORDANCE

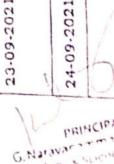
Artificial Intelligence and Machine Learning; Real Time Applications (20% - 30% Sept 2021)

Organized by E & ICT Academy, NIT Warangal

(Sponsored by Miniatry of Electronics and Information Technology (Meli'r), Govt. of India)

Department of ETE, G. Narayanamina Institute of Technology and Science (for Women), (AUTOSOMOUS). in association with Shalkpet, Hyderabad





22-09-2021

21-09-2021

20-09-2021

Day

25-09-2021

28-09-2021

27-09-2021





# G. NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE (For Women) (AUTONOMOUS)

Shaikpet, Hyderabad - 500104

Department: Electronics and Telematics Engineering

2021-22

### REPORT

FDP on "Artificial Intelligence and Machine Learning: Real Time Applications"

Date of Program: 20-09-2021 to 30-09-2021

# Resource Person:

- 1. Dr Ravi Kumar Jatoth, Associate Professor, Dept of ECE, NITW
- 2. M. Vijay Kumar, Dept of ECE, NIT Warangal
- 3. Mr Adit, Dept of ECE, NIT Warangal
- 4. Dr Anil Kumar Uppala, IIIT Hyderabad
- 5. Sri Ayush Utkarsh, Engineer, IBM India
- 6. Dr M Srinivas, Asst Professor, Department of CSE, NITW
- 7. Dr Kadambari, Asst Professor, NITW.
- 8. Dr. Swagatam Das, ISI Kolkata
- 9. Prof. M.Bhurchandi, NIT Nagpur.

About the Program: I, A. Chandra Shaker, attended FDP on "Artificial Intelligence and Machine Learning: Real Time Applications" organized by G. Narayanamma Institute of Technology and Science, ETE department in association with E & ICT Academy, NIT Warangal from 20-09-2021 to 30-09-202. This FDP provided theoretical and practical knowledge on Artificial Intelligence and Machine learning. The diverse range of topics covered in this FDP includes: Introduction to Al and its applications in real world, introduction to machine learning, types of learning algorithms, unsupervised learning methods, partitioned and hierarchical clustering methods. Hands on implementation of supervised and unsupervised methods, Support vector machine classification and application of Neural Networks and practical implementation, introduction to deep learning methods and applications, medical image data processing and analysis, Hands on implementation of image data processing and analysis, reinforcement learning, optimization and data driven methods, GAN.

Signature of the Faculty Member

A. Chandra Shaker, Asst. Professor, ETE

PRINCIPAL
G. Narayanamma Institute of
Technology & Science (for women)
(Altrice HOUS)
(Shalkpet Types Dead - 500 104