

TWO WEEK ONLINE PACULTY DEVELOPMENT PROGRAMME (PDP) Artificial Intolligence and Machine Learning: Real Time Applications (70 10 Deplember 2021) Orgenized by E & ICT Academy, Nellonal Institute of Technology, Warangel. In association with

G. Narayanamma Institute of Technology and Ociance (for Vioreen) AUTONOMOUS, Blinkpel, Hyderalind. (Sponsoral by Ministry of Rischronics and Information Technology (Mart), GOO

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extronics & ICT Academy" was set up at NIT Warangal with financial mance them Men's Gol The jumeliction of this scademy is Telangana, Chra Pradeili, Karnatala, Goa, Puducherry and Andaman & Nicoliar inde The academy role is to offer faculty development programmes in nubrilized and emerging areas of Electronics, Information mour cation Technologies, training & consultancy services for Industry. in sub-in development for Industry, CIT' for working professionals, Advice I support for technical incubation and entrepreneurial activities

#### out the Workshop:

theology plays a major role in day to day life activities. To drive a huge er tion of consumer, companies are relying on advance algorithms to make ng cauer Artificial intelligence and Machine learning are the major anologies in recent scenario. The advancements in Machine Learning a'c an exemptary rise in technological industry. The Artificial Intelligence a shead in descioping a more intelligent computer system that adapts. olica and learns. This has tremendous application in industry, defense, theare, agriculture and many other areas. This FDP will be a platform in nurg knowledge in Artificial Intelligence & Machine Learning domains.

por Course Contents:

- Introduction to A1 & ML and its applications in real world
- Introduction to Python (Hands-on)
- Linear Regression
- Polynomial Regession
- Logistic Regression along with data preprocessing and feature . analysis (Hands-on)
- Exploratory data analysis with Scaborn, SVM, K means clustering (Bands-on)
- Bayestan learning, decision tree based classification methods
- Dimensionality reduction methods
- Introduction to Deep learning methods and applications, . CNN, RNN
- Neural networks and practical implementation
- Sentimental analysis, Dialogue systems (Hands-in)
- Vanishing gradient problem (Hands-on)
- Ensemble modeling techniques
- Reinforcement Learning, Optimization and Data driven Methods
- GAN

cully conducting this programme: e programme will be conducted in online mode by the faculty members m WIT Warangal. Academicians in the concerned field from SITE HITE are invited to deliver lectures in the programme. Speakers in industries are also expected to deliver as part of the course.

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The fee is to be part through online transfer using the following

deta le Online Transfer Detalls Account Sister Victionales & ICT Academy HITW Access No. 62423775910 11SC 511150010149 Bank and Branch. State Bank of Jadis, STE(REC) Warangal

#### How in apply:

Participants are required to fill in the Online registration from given in the heliw link https://forms.gle/11/11AESCA9nUD7/017

### Selection Criteria:

Selection will be done based on first-come funt-serve bases 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 usued satisfactor certificates on successful completion of the course Reservations a followed for selecting candidates as per GOI porma

Important dates:

Last date for Registration	16th September, 2021
Selection List by E- mall	17" September, 2021
Duration	20ª September -33ª September . 2321

#### About NIT Warangal:

National Institute of Technology, Waraagal is the first among I RECs sclup as joint venture of the Government of India and the sta government. Over the years the college has established excif as prensier Institute imparting technical education of a very high standa. 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 Narayanamma Institute of Technology & Science (For Women) leading engineering college in Hyderabad for women fearated by L. Sri G Pulla Reddy Gara in 1997, with the objective of providing excellent learning facility for women to pursue constitute engineering the untitute aims to promote Technical Falucat umong Women to enhance and build-up a new generation of thurse innuvators 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 apprecied AICTH, accredited by NAAC & NBA (AICTE) College has 202 . qualified and committed faculty members out of which 50 PRINCIPAL Dugigsties College has a UG courses (CSE, ECE, EEE, IT, E arayan imma institute Mendula Science, Obe These PG courses (CSE, DECE, W)

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Artificial Intelligence and Machine Learning : Real Time Applications Organized by E & ICT Academy, NIT Warangal (20% - 30% Sept 2021)

(Sponsored by Ministry of Electronics and Information Technology (Meiry), Gov. of India) in association with

Department of ETE, G. Narayanamma Invitute of Technology and Science (for Women).(AUTONOMOUS). Shaikpet, Ilyderabad

,	11.00 Inauguration	11.00 A.M - 1.00 PM Introduction to Machine Learning and Applications		2.00 P.M - 4.00 P.M Introduction to Python M Vilay Kumar
20-09-2021	(10.30 A.M - 11.00 A.M) Worl Dr. J Ravi K	00 A.M - Dr. J Ravi Kumar .00 A.M NIT Warangal Working with Python Dr. J Ravi Kumar & M Vijay Kumar		NIT Warangal Linear Regression Dr. J Ravi Kumark M Vijay Kumar NIT Warangal
22-09-2021	Machine Learnin Dr. J Ravi I	Machine Learning Techniques: Multiple Linear Regression Dr. J Ravi Kumar& M Vijay Kumar NIT Warangal	3	Logistic Regression Dr. J Ravi Kumata M Vijay Kumat NIT Warangal
23-09-2021	Polynomial regression & J Algorith Dr. J Ravi Kumar& 7 NJT Warar	momial regression & K Nearest neighbor Algorithm Dr. J Ravi Kumar& M VlJay Kumar NIT Warangal	טחכה פוכיגא	Colour Quantization using K-Means Clustering Algonithm Dr. J Ravi Kumar NIT Warangal
24-09-2021	Supp Dr.M. S	Support Vector Machine Dr M. Srinivas, CSE, NITW	7	Support Vector Machine Dr M. Srinitas , CSE, NITW
25-09-2021	Basic Neural Network an using Pyt Dr. J Ravi Kumar & NIT Wara	Basic Neural Network and Back Propagation using Python Dr. J Ravi Kumar & M Vijay Kumar NIT Warangal		Convolution Neural network Dr. J Ravi Kumar S Adit NIT Warangu
27-09-2021	Image Processing	Image Processing Using Python Libraries. Mr Adlt NJT Warangul		Convolution Neural network & and Character recognition using Python Dr. J Ravi Kumar & Adit NIT Watangal
28-09-2021	Recur Dr Ka	Recurrent Neural Networks Phincipal Dr Kadarnbart, CSEnhill Wangamma Institute Shaik Recting Volucion (to wood)	tidre or	Implementation and Demonstration of Project Implementation Using Deep neural Networks Prof. Iburebandl NIT Nagpur

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# G.NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE (For Women) (AUTONOMOUS) Shaikpet, Hyderabad – 500104

Department: Electronics and Telematics Engineering

## 2022-23

## REPORT

# Artificial Intelligence And Machine:Real Time Applications (NITW)

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

I recently completed a 40-hour Faculty Development Program (FDP) focusing on Artificial Intelligence (AI) and Machine Learning (ML). The program provided a comprehensive journey from foundational concepts to hands-on implementation. Covering topics such as Python programming, various regression techniques, logistic regression with data preprocessing, exploratory data analysis, sentiment analysis, and ensemble modeling, the FDP struck a balance between theory and practical application. The hands-on sessions, particularly in Python and real-world ML scenarios, enriched my understanding and equipped me with valuable skills that I'm eager to integrate into my teaching, ensuring a more engaging and application-oriented approach for students. Overall, the FDP proved to be an intensive and rewarding experience, significantly enhancing my expertise in the dynamic fields of AI and ML.

Signature of the Faculty member

ikas. Asst Professor, ETE

PRINCIPAL G. Narayanamma Institute of Technology & Science (for women) (AUTONOMOUS) Shaikpet, Hyderabad - 500 104.