Brief Profile of the Department of CS & E:
The department of Computer Science & Engineering was established in the year 1991. The department offers high-quality undergraduate, postgraduate and doctoral programs. The department has a team of well-experienced faculty, graduated from IIT’s, NIT’s, Central Universities, and other premier Institutes of higher learning. The department provides state-of-art research facilities to generate knowledge and develop technologies in the thrust areas of Computer Science and Engineering.

Highlights of the Course:
- This FDP will be conducted three hours a day with no overlap to the regular office hours.
- The sessions will begin in the evening time, possibly after 5pm.
- Majority topics will be covered with hands-on using Python.

For any query regarding this course, please contact the Coordinators.

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Centre for Continuing Education of NIT Warangal:
The Centre for Continuing Education of NIT Warangal organizes Continuing Education Programmes and Workshops in the frontier areas of Science, Engineering, Technology, Management, Humanities, Social Science and socially relevant themes on a self-financing basis in three different modes: (i) At NIT Warangal by NIT Warangal (ii) At NIT Warangal in collaboration with other Organizations (iii) By NIT Warangal Faculty at the Host Organization/Institute.

About NIT Warangal:
National Institute of Technology Warangal, formerly known as Regional Engineering College, was established in 1959. Over the years, it has developed into a premier institute of higher learning and is ranked among the top technical education institutions in India. There are 13 Departments, offering eight undergraduate and 32 post-graduate programs besides doctoral programmes. About 5000 students across the country and about 500 international students study in the campus. It is a fully residential campus sprawling over 250 acres with excellent infrastructure, state of the art library, seminar halls, guest houses, and laboratories.

Call for Registration and Participation

The Centre for Continuing Education of NIT Warangal is organizing an Online Faculty Development Programme on “Machine Learning with Python” from 12th to 16th April, 2021.

Coordinators
Dr. Venkateswara Rao Kagita
Dr. Balaprakasa Rao Killi

Organized by
Department of Computer Science and Engineering, NIT Warangal

In association with the
Center for Continuing Education
Overview of the FDP:
This FDP on Machine Learning with Python aimed at imparting knowledge and training on the fundamentals of machine learning with different aspects and applications. The main objective is to make participants familiar with emerging field of machine learning.

Objectives:
- The program will positively impact the perceived ability to understand recent advances in machine learning.
- Participants will be able to demonstrate knowledge of machine learning techniques to solve real world problems

Course Content:
- Introduction:
  What is Machine Learning, Real-life examples and Applications, Machine Learning vs. Data Science vs. AI, Machine Learning types, Generics of machine learning approaches.
- Regression
  Univariate linear regression, multivariate linear regression, Polynomial Regression.
- Classification
  Logistic regression, SVM, Multi-class SVM, Decision trees.
- Ensemble Approaches
  Bagging, Random Forests, Boosting: Adaboost, Gradient boosting.
- Optimization
  Gradient descent, Stochastic gradient descent, Batch gradient descent.
- Clustering
  Different clustering approaches and applications.
- Feature Engineering
  Feature Scaling, Feature Selection and Dimensionality Reduction
- Reinforcement Learning:
- Hands-on to the majority of the topics using Python.

Resource Persons:
Eminent faculty from IITs, Central Universities, Industry and Senior Faculty from different departments of NIT Warangal, will deliver lectures and conduct hands on sessions.

Registration fee:

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty, Post doctoral fellows, Research Scholars, PG students, UG students</td>
<td>Rs. 500/-</td>
</tr>
<tr>
<td>Industry participants</td>
<td>Rs. 1000/-</td>
</tr>
</tbody>
</table>

The registration fee may be remitted Online through NEFT, Quick transfer, Gpay, PhonePe, Paytm, or any other UPI to the Bank account given below and upload the proof of remittance in the google form.

Important Note: Please enter course code DSMLM in remarks while doing transaction. This is mandatory.

Confirmation of Participation:
On receipt of the google form and fee remittance receipt, participants will be sent confirmation of their participation through email by 04th December, 2020. As the programme is conducted online with hands-on sessions, the number of participants in the workshop is limited to 100. Candidates are advised to register early to avoid disappointment.

How to Apply: Eligible candidates may apply by filling the following google form with payment proof on or before 10th April, 2021.

https://forms.gle/fAh58B5uJPfmGTAV9