MGMs Jawaharlal Nehru Engineering College, Aurangabad, MS, INDIA

FDP on
Artificial Intelligence using Deep and Machine Learning

01st – 05h January, 2019

In Association with IIT Roorkee

One week Faculty Development Program

Dear Sir / Madam,

Jawaharlal Nehru Engineering College is a premier institute of engineering that has carved a niche for itself in the field of technical education in a very short span of time. The college has made its presence felt in the world of technical education. Accredited by NAAC with 'A' grade, ISO 9001:2015 and ISO 140001:2015 (EMS).

We are delighted to intimate you that Department of Information Technology, announces *Faculty Development Program* on *"Artificial Intelligence using Deep and Machine Learning"*.

Objectives of FDP

The objective of this FDP is to provide a practical exposure to the faculty about recent trends in engineering and technology. Our aim is to improve the skills and unleashing the creativity of the faculty. This FDP enables participants to work on the latest Artificial Intelligence technologies. Participants get to learn artificial neural networks (ANNs), classification and regression, supervised learning, vectorization, a binary classification which will pave the way to become an Artificial Intelligence expert.

- Introduction of Deep Learning and Artificial Intelligence
- Supervised Learning- Regression Classification
- Introduction Neural Network & Deep Learning
- Perceptron, multilayer network, backpropagation,
- Introduction to python and anaconda
- Working on spyder, Jupyter notebook
- Introduction Matplotlib Scipy and Numpy
- Introduction of Tensorflow

Project to covered in Artificial intelligence
- For recognizing handwritten digits (MNIST dataset)
- Simple Spam-Detecting Machine Learning Classifier
- Modern Face Recognition with Deep Learning
- Case Study: Cancer Detection, Character Recognition, Iris Clustering

- Case Study: Intelligent Washing Machine Design
- Image Segmentation using deconvolution layer in Tensorflow
- Develop a predictive analytics model for a complex data set

Outcome of FDP

Participants will get to interact with renowned industry experts which will help in learning latest trends.

Participants will be able to do projects in AI due to projects & case study like intelligent washing machine design and many more.

FDP Registration: Available Online

https://docs.google.com/forms/d/e/1FAIpQLSfLF7hRiMufRPTgYVev5wIkaUWw0Sv5cNeSK5svkMCBEyQKLQ/viewform?vc=0&c=0&w=1

Benefits/ Certificate

- Learn & Interact with renowned Industry Experts.
- The Certificate of Participation in Association with e summit of IIT-R.
- Software tool & projects to each participant.
- Top attendees will be awarded as winners with a certificate of excellence.

Participant Eligibility & Registration Fee:

- For **student** Rs. 2500/-Per Attendee.
- For **faculty** Rs. 3000/-Per Attendee.
- For **professionals** Rs. 3500/-Per Attendee
- The program is open to the faculty of engineering colleges, Research Scholars, students and other working professionals are also, eligible.

Please feel free to contact us for any clarification, if required.
Thanking you with warm personal regards,

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