

A Summary Report
of
One Week National Workshop
on

“Machine Learning and Internet of Things”
(09th -13th December, 2019)

In Association with
Computer Society of India



Sponsored By
Guru Gobind Singh Indraprastha University
Dwarka, New Delhi



Organized By
Computer Science and Engineering Department



JIMS Engineering Management Technical Campus, Greater Noida
48/4, Knowledge Park III, Greater Noida, Knowledge Park III, Noida,
Uttar Pradesh 201303

Dr. Vikas Chaudhary
Convener

Mr. Pankaj Singh Yadav
Coordinator

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Introduction

“Artificial Intelligence, deep learning, machine learning—whatever you’re doing if you don’t understand it—learn it. Because otherwise you’re going to be a dinosaur within 3 years.”- Mark Cuban

Machine Learning and Internet of Things is not just a niche subfield of computer science but a giant technological environment that is going to change the work as well as implementation scenario in coming future. The national workshop planned by Computer Science and Engineering Department of JIMS Engineering Management Technical Campus, Greater Noida intended following:-

1. Train the trainer means train the faculty member so that they can train the students.
2. Introduce the research opportunity in this field.
3. Provide real time exposure of implantation.
4. Project oriented teaching learning practice.
5. Basic to advanced level programming skill development.
6. Industry requirement and gap fulfilling.

This workshop tried to integrate and provide the dual taste of leading current technologies that are Machine Learning and Internet of Things, to the field experts of Computer Science, Electronics and Mathematics. Following are the reasons behind choosing the theme as “Machine Learning and Internet of Things” :-

1. Continuous Growth and Improvement
2. Possible implementation is all the major fields like Healthcare, Journalism, Banking, Security Services, IT Industry, Telecom Sector etc.
3. Easy Deployment with least cost involved.
4. Minimizes time-intensive documentation by automation.
5. Precision and quality improvement
6. Less competition in market
7. Variety of Jobs are available
8. Societal improvement
9. No Human intervention

Objective & Outcome

Objective of the Workshop

The programme is designed to train the faculty members in the area of Machine Learning and Internet of Things so that they can act as ‘Resource Person’ in guiding and motivating students to carry out high quality research. The aim of this workshop is to provide an exposure to both basics and recent advances in Machine Learning and IoT to the teaching and research community. The specific objectives are to:

- Introduce the participating faculty to the basic algorithm of machine learning and train them to implement these algorithms in real world practical problems.
- Equip them with requisite skills, knowledge and competencies for machine to machine communication through internet technologies.

Outcome of the Workshop

Machine learning has emerged as an important technology to easily identify trends and patterns, for automation, for continuous improvements, to handle multi-dimensional and multi-variety data. The predictive maintenance, analysis, spam detection and recommendation are the ways by which machine learning improvises the business. Asset utilization can be improvised through efficient processing with the help of interconnection technology IOT. This workshop is intended to involve the resource persons from different sectors pursuing recent research.

After attending the workshop, participants will be able to:

- Understand fundamental machine learning techniques.
- Describe various IoT applications
- Correlate integration of Machine learning and IoT that reduces human efforts and provide efficient solutions for safety and security.
- Reframe technological advancement of machine learning algorithm

Invited Speakers

This workshop has been customized to faculty members, research scholars, IT professionals and distinguished academicians of multidiscipline. It will help Computer Science, Electrical, Electronics and Communication and Mechanical Engineering professionals to integrate equipments and services for providing better solution to real world problems. The attendees of the workshop will earn 10 Points in API score. The selection of speaker was focused towards practical oriented sessions. Following is the detailed profile of speaker invited:-

S. No	Name of Resource Person	Designation	Affiliation	Mob. No.
1	Mr. Pratipal Singh	Tech Lead	Ericson Global, Gurgaon	9560222755
2.	Mr. Aditya Kumar	Senior Manager	SO Infotech Pvt. Ltd.	9210648013
3	Dr. Mukesh Saraswat	Associate Professor	JIIT, Noida	7836035454 7678289408
4	Mr. Rahul Pathak	Data Science Developer	Gotracko Pvt Ltd, Noida	8802453394
5	Mr. Himanshu Mittal	Assistant professor	JIIT, Noida	9958687894
6	Dr. J.C Bansal	Associate Professor	South Asian University, Delhi	9582052201
7	Mr. Stephen Simon	Sr. Technical Head	MCN Solutions, Noida	9910125804
8	Mr. Gaurav Jain	Project Manager	TCS, Noida	9818520455
9	Dr Rishav Singh	Assistant Professor	Bennett University, Greater Noida	8557874256

The Speakers targeted were the best in their field and provided the confirmation to be part of this national workshop. The final speakers those who have delivered their talk in this workshop are from S. No. 1 to S. No. 5. The Profile of external speakers/experts is as following:-

Mr. Pratipal Singh is a solution architect in Ericsson India Pvt .Ltd. Licenses & Certifications of Mr. Pratipal includes Amazon Web Services, Big Data Technology-Hadoop, Cloud Fundamentals, Red Hat Open Stack Certification, Sun Solaris Certification SA1 and SA2. He had previously worked with HCL technologies as Specialist - Unix Sytem Admin and Automation (Shell/Perl).

Mr. Aditya Kumar is Senior Manager in SO Infotech Pvt. Ltd and Joint partner of LNC Infotech Pvt. Ltd. He possess more than 11 years of industry experience and delivered more than 30 projects. He being technical experts trained more than 2000 professionals. He is certified in technologies like JAVA, AWS, Big Data and many more advanced technologies.

Dr. Mukesh Saraswat is Associate professor in Jaypee Institute of Information Technology, Noida. His qualification is as following:-

- Ph.D. (Computer Science & Engineering), ABV- IITM, Gwalior.
- M. Tech. (Computer Science & Engineering), U.P.T.U., Lucknow
- B.E. (Computer Science and Engineering), M.J.P. Rohilkhand University, Bareilly

He possess more than 15 years of teaching and research experience. He had guided more than 50 M. Tech. and presently guiding 02 Ph. D. students. He had published more than 30 journal and conference papers. He was the part of successfully completed DRDE funded project on image analysis and currently running a project funded by SERB-DST (New Delhi) on Histopathological Image Analysis.

Mr. Rahul Pathak is a Data Science Developer in Gotracko Pvt Ltd, Noida. He is certified professional of latest technologies like Python, R Studio, Pig, Hive, Scoop, Flume and many more. He is Field expert and part of many government projects. He had trained more than 1000 professionals and expert panelist of various national level technical competitions. He had designed projects like smart street lights, automated waste recycling and several others.

Dr. Himanshu Mittal is Assistant Professor in Jaypee Institute of Information Technology, Noida. He is Ph.D. from JIIT, Noida, M.Tech. from Delhi Technological Univeristy, Delhi and B .Tech. from Uttar Pradesh Technical University. He is domain expert of Soft Computing, Nature Inspired Algorithms, Computer Vision, Deep Learning and. Machine Learning. He had published more than 20 research papers in reputed national and international Journal/Conferences. He had guided more than 10 project at graduate level.

Invited Participants

The programme was attended by 52 participants out of whom 26 were external participants (all over India & across) & 26 internal faculties from various departments of JEMTEC, Gr. Noida. Following are the details of the participants who were the part of National Workshop:-

External participants

S. No.	Name of Participant	Organization
1	Shobhit mani tiwari	BBD University, Lucknow
2	Vikas Singhal	JSS Academy of Technical Education Noida
3	Shivani Dubey	JSS Academy of Technical Education Noida
4	Preeti Arora	NIET, Gr. Noida
5	Gaurav Singh	United College of Education, Greater Noida
6	Anju Chandna	GLBITM, Greater Noida
7	Asha Rani Mishra	GLBITM, Greater Noida
8	Samender Singh	GNIOT, greater noida
9	Pramit	Anand Engineering college, Agra
10	Kanika Garg	Krishna Engineering College, Ghaziabad
11	Dr. A.K. Awasthi	Lovely Professional University
12	Pawan Kumar Singh	G L Bajaj Institute of Technology and Management
13	Swati Vashisht	Amity University, Noida
14	Shubhi Gupta	Amity University, Noida
15	Dr. Kanchan Hans	Galgotia College of Engg. and Technology, Gr. Noida
16	Megha Chhabra	Amity University, Noida
17	Sheveta	Sharda University
18	Sumit koul	Lovely Professional University
19	Mr. Amit Sharma	SRM University, Ghaziabad
20	Ms. Naina Yadav	Trinity, Gr. Noida
21	Mr. Durgesh Singh	GLBITM, Greater Noida
22	Ms. Vasudha Tiwari	GNIOT, Greater Noida
23	Mr. Aman Sanghi	GNIOT, Greater Noida
24	Ms. Kirti Verma	GNIOT, Greater Noida
25	Mr. Murari	IEC, Gr. Noida
26	Dr. Sandhya Tarar	Gautam Buddha Univeristy, Gr. Noida

Internal Participants

S. No.	Name	Organization
1	Dr. Vikas Chaudhary	B.Tech, CSE, JIMSEMTC, Gr. Noida
2	Dr. Avinash Dwivedi	B.Tech, CSE, JIMSEMTC, Gr. Noida
3	Dr. Sandeep Gupta	B.Tech, CSE, JIMSEMTC, Gr. Noida
4	Dr. Shekhar Singh Kaushab	B.Tech, CSE, JIMSEMTC, Gr. Noida
5	Mr. Rahul Deva	B.Tech, CSE, JIMSEMTC, Gr. Noida
6	Mr. Rupesh Mishra	B.Tech, CSE, JIMSEMTC, Gr. Noida
7	Mr. Pankaj Singh Yadav	B.Tech, CSE, JIMSEMTC, Gr. Noida
8	Ms. Namita Singh	B.Tech, CSE, JIMSEMTC, Gr. Noida
9	Mr. Krishna Kumar Saraswat	B.Tech, CSE, JIMSEMTC, Gr. Noida
10	Ms. Prerna Agarwal	B.Tech, CSE, JIMSEMTC, Gr. Noida
11	Dr. Ruchi Agarwal	BCA, JIMSEMTC, Gr. Noida
12	Dr. Sanjeev Kumar Punia	BCA, JIMSEMTC, Gr. Noida
13	Mr. Surendra Pathak	BCA, JIMSEMTC, Gr. Noida
14	Mr. Shree Harsh Attri	BCA, JIMSEMTC, Gr. Noida
15	Ms. Apporva Jain	BCA, JIMSEMTC, Gr. Noida
16	MS. Kalpana Jha	BCA, JIMSEMTC, Gr. Noida
17	Dr. R. N. Rajotiya	B.Tech, ECE, JIMSEMTC, Gr. Noida
18	Dr. Ajay Sharma	B.Tech, ECE, JIMSEMTC, Gr. Noida
19	Dr. Nitin Tyagi	B.Tech, ECE, JIMSEMTC, Gr. Noida
20	Dr. Jugal Kishor	B.Tech, ECE, JIMSEMTC, Gr. Noida
21	Ms. Gujan Mittal Roy	B.Tech, ECE, JIMSEMTC, Gr. Noida
22	Ms. Shilpa Sharma	B.Tech, ECE, JIMSEMTC, Gr. Noida
23	Ms. Bhawna Sachdeva	B.Tech, ECE, JIMSEMTC, Gr. Noida
24	Mr. Sankhayan Chakrabarty	B.Tech, ECE, JIMSEMTC, Gr. Noida
25	Mr. Manpreet Singh	BBA, JIMSEMTC, Gr. Noida
26	Ms. Shivam Agarwal	B.Com, JIMSEMTC, Gr. Noida

Registration

Registration Fees:-

Amount to be paid as per category

Research Scholar: INR 750/-

Academician : INR 1000/-

Industry Person : INR 2000/-

20% Discount on all the above categories for CSI Members on production of proof of valid membership

Mode of Payment:-

Demand Draft in favour of "JIMS Engineering Management Technical Campus" payable at Gr.Noida / Cash (on Spot registration)

Online payment through Internet banking (NEFT/RTGS)

Website:-

For registration please visit the website
<https://www.jimsgn.org>

Accommodation

All the outstation participants will be provided accommodation in the JIMSEMTC, Greater Noida hostel on payment basis. No TA/DA will be paid for the participants.

Correspondence

Dr. Vikas Chaudhary

(Convener)

Email id:- hodcse.gn@jagannath.org

Mobile no:- 9720111300

Mr. Pankaj Singh Yadav

(Coordinator)

Email Id:-pankajsingh.gn@jagannath.org

Mobile no:- 9873647353

Chief Patrons

Dr. Amit Gupta

Hon'ble Chairman

JIMSEMTC, Greater Noida

Patron

Prof. R. K. Raghuwanshi

Director, JIMSEMTC, Greater Noida

Convener

Dr. Vikas Chaudhary

Professor & Head CSE

Coordinator

Mr. Pankaj Singh Yadav

Assistant Professor CSE

Advisory Committee

Mr. Saurabh Agrawal, Sr. Consultant-TCS, Patron CSI

Mr. S.C.Tyagi, Divisional Chairperson CSI

Dr. Kavita Saxena, Chairperson CSI GZB Chapter

Dr. Devendra Jha

Prof. S. Padmanabhan

Dr A.K. Jain

Dr. R.N. Rajotiya

Dr. Shiv Kumar

Dr. Rekha Mahajan

Dr. Pallavi Gupta

Dr. Sumit Agarwal

Dr. Ruchi Agarwal

Dr. Arun Kumar Singh

Organizing Committee

Mr. Gaurav Sharma , Secretary CSI GZB Chapter

Dr. R.P.S. Tomar, Vice Chairman CSI GZB Chapter

Dr. Avinash Dwivedi, Dr. Sandeep Gupta

Dr. Shekhar Singh, Mr. Rahul Deva

Mr. Rupesh Mishra, Ms. Namita Singh

Mr. Krishan Kumar, Ms. Prema Agarwal



One Week
National Workshop
on



Machine Learning and Internet of Things

(9th- 13th Dec, 2019)

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Computer Society of India
(Ghaziabad Chapter)



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Guru Gobind Singh Indraprastha University
Dwarka, New Delhi



Organized by

Computer Science & Engineering Department

JIMS Engineering Management Technical Campus

48/4, Knowledge Park III, Greater Noida

Uttar Pradesh- 201308

Ph: 0120-3819700, 3819734

About The Institute

JIMS Engineering Management Technical Campus is approved by AICTE & Affiliated to Guru Gobind Singh Indraprastha University (GGSIU), Delhi. The Institute has been established to cater to the growing needs of higher education in the country. In order to face the challenges of globalization and liberalization in the field of engineering, the Institute has endowed its faculty and students with modern technologies, skills and attitudes.

The Institute has an excellent infrastructure in support of high quality teaching, learning and research activities. The Wi-Fi enabled campus has the state-of-art infrastructure comprising of an environment friendly Administrative Block, Academic Blocks, spacious class rooms with internet and intranet connectivity and hi-tech multimedia and laboratories for each stream of Engineering and Technology.

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- Reframe technological advancement of machine learning algorithm

Participation certificate shall be awarded to all the participants by the Institute. Participants will earn 10 points for his/her API score.

Eminent Speakers

Dr. J.C Bansal

Associate Professor

South Asian University, Delhi

Visiting Research Fellow

Maths and Computer Science, Liverpool Hope University UK

Dr. Mukesh Saraswat

Associate Professor

Jaypee Institute of Information Technology

Noida

Dr. Rishav Singh

Assistant Professor

Bennett University, Greater Noida

Mr. Gaurav Jain

Project Manager

Tata Consultancy Services, Noida

Mr. Pratipal Singh

Technical Head

Ericson Global, Gurgaon

Mr. Rahul Pathak

Project Manager

GoTracko Pvt Ltd , Noida

PEDAGOGY

A mix of pedagogy tools will be used-cases, lectures, discussions, presentations and hand-on-experience in computer. Those who have laptops are requested to bring along with them in National Workshop.

Program Schedule



**JIMS Engineering Management Technical Campus
Greater Noida**

**NATIONAL WORKSHOP ON
“MACHINE LEARNING AND INTERNET OF
THINGS”**

(09- 13 DECEMBER 2019)



**Detailed Workshop Schedule
Venue: LAB 1, Block AB-1(LAW Building)**

DAY 1 09th Dec, 2019(Monday)

09:00 AM - 10:30 AM	Registration. (Reception, Law Building)
10:30 AM - 11:00 AM	Tea Break.
11:00 AM – 01:00 PM	Session 1:- Introduction to Micro Service Architecture
01:00 PM - 02:00 PM	Lunch Break.
02:00 PM - 04:30 PM	Session 2:- Components Kubernetes, dockers and DevOps
04:30 PM - 04:45 PM	Tea Break.

DAY 2 10th Dec, 2019(Tuesday)

10:00 AM - 11:00 AM	Session 3:- Introduction to Python
11:00 AM - 11:15 AM	Tea Break.
11:15 AM – 01:00 PM	Session 4:- Supervised learning algorithms, Classification and regression
01:00 PM - 02:00 PM	Lunch Break.
02:00 PM - 04:30 PM	Session 5:- Implementation on jupyter
04:30 PM - 04:45 PM	Tea Break.

DAY 3 11th Dec, 2019 (Wednesday)

10:00 AM - 11:00 AM	Session 6:- Basic of Deep Learning
11:00 AM - 11:15 AM	Tea Break.
11:15 AM – 01:00 PM	Session 7:- Introduction to Tensor Flow
01:00 PM - 02:00 PM	Lunch Break.
02:00 PM - 04:30 PM	Session 8:- Deep Learning Using Tensor Flow
04:30 PM - 04:45 PM	Tea Break.

DAY 4 12th Dec, 2019 (Thursday)

10:00 AM - 11:00 AM	Session 9:- An engineering application for image classification
11:00 AM - 11:15 AM	Tea Break.
11:15 AM – 01:00 PM	Session 10:- An analytical application for GDP dataset
01:00 PM - 02:00 PM	Lunch Break.
02:00 PM - 04:30 PM	Session 11:- Deep learning frameworks and architecture, Basic of NLP
04:30 PM - 04:45 PM	Tea Break.

DAY 5 13th Dec, 2019 (Friday)

10:00 AM - 11:00 AM	Session 12:- Swarm Intelligence
11:00 AM - 11:15 AM	Tea Break.
11:15 AM – 01:00 PM	Session 13:- Particularly Artificial Bee Colony Algorithm
01:00 PM - 02:00 PM	Lunch Break.
02:00 PM - 03:30 PM	Session 14:- Continued to Particularly Artificial Bee Colony Algorithm
03:30 PM – 04:30 PM	Valedictory Function

Expert wise Schedule and Topics to be delivered is as following:-

Name of Expert	Date	Topics
Mr. Pratipal Singh	09-12-2019	Micro Service Architecture and its components eg. Kubernetes, dockers and DevOps
Mr. Aditya Kumar	10-12-2019	Introduction to Python, Supervised learning algorithms, Classification and regression, Implementation on jupyter
Dr. Mukesh Saraswat	11-12-2019	Deep Learning using Tensor Flow
Mr. Rahul Pathak	12-12-2019	An engineering application for image classification, An analytical application for world bank GDP dataset, Basic of NLP
Dr. Himanshu Mittal	13-12-2019	Nature Inspired Algorithm and it's implementation like Swarm Intelligence, Particularly Artificial Bee Colony Algorithm.

Day 1 Report

Day 1- 09th December 2019

Resource Person:-

Mr. Pratipal Singh

Solution Architect, Ericsson India Pvt .Ltd.



Morning session: Mr. Pratipal Singh talked about the infrastructure required for any kind of software solution in big panorama along with security and reliability level. Mr. Singh also told about the advantages of NoSQL over SQL databases while developing AI applications.

Afternoon Session: Speaker discussed about the cloud computing and Infrastructure required for Deep Learning application. Discussion of data management and security on cloud with high efficiency was beneficial for the participants. Mr. Singh discussed about the development of IoT application along with its deployment on server.

Day 2 Report

Day 2- 10th December 2019

Resource Person:-

Mr. Aditya Kumar

Senior Manager in SO Infotech Pvt. Ltd.



Morning Session: Mr. Aditya had given a session on Jupiter Notebook and its use in ML. This session was completely a hands on session in which participants learnt from installation to use in simple as well as complex ML and IOT problems. The language of the practice was Python.

Afternoon Session: Hands on practice on Jupiter notebook taking different problems of supervised and unsupervised learning. Different universal data repository and its use gave a good picture to the participants. Resource person has also cleared the steps to create own data along with data processing and normalization.

Day 3 Report

Day 3- 11th December 2019

Resource Person:-

Dr. Mukesh Saraswat, Associate Professor
Jaypee Institute of Information Technology, Noida.



Morning Session: Introduction to Google colab and its use in ML was a very informative session. Participants could learn about Google colab and data uses. Different packages and its use was discussed and practiced in the session

Afternoon Session: Hands on practice on Google colab with the use of tensor flow. He also discussed about the complex models such as Artificial Neural Network, Convolution Neural Network etc. Participants practiced examples of ANN, CNN and Deep learning during the lab session.

Day 4 Report

Day 4- 12th December 2019

Resource Person:-

Mr. Rahul Pathak,

Data Science Developer, Gotracko Pvt Ltd, Noida.



Morning Session: Speaker had discussed about the wide dimension of Artificial Intelligence Machine learning and Deep learning. He had also discussed about the complex mathematics involved behind the intelligence techniques.

Afternoon Session: This session was application based session in which resource person has shown live examples of Machine learning and IoT where accuracy of prediction was more than 95%.

Day 5 Report

Day 5- 13th December 2019

Resource Person:-

Dr. Himanshu Mittal, Assistant Professor
Jaypee Institute of Information Technology, Noida.



Morning Session: Dr. Mittal talked about different Nature centric algorithms such as Genetic algorithm, Particle swarm optimization, Ant colony optimization etc. He explained the process to crease own dataset for above discussed algorithms.

Afternoon Session: Dr. Mittal had discussed real time problems and its implementation in lab. Participants participated in hands on session to apply nature centric algorithms to solve complex problems of classification and clustering.

After the commencement of last session by the expert the valedictory function started in Dr. Vikas Chaudhary and Dr. Avinash Dwivedi distributed the certificate to internal as well as external participants.



The vote thanks provided by the coordinator of the workshop Mr. Pankaj Singh Yadav. The suggestions and feedbacks taken by Mr. Rahul Deva. In this manner national workshop concluded successfully.



Sample Registration Slip



JIMS
GR. NOIDA

09-13 December, 2019

NATIONAL WORKSHOP ON MACHINE LEARNING AND IOT

Venue:-

Department of Computer Science and Engg.

**JIMS Engineering Management Technical Campus
48/4, Knowledge Park III, Greater Noida, Knowledge
Park III, Noida, Uttar Pradesh 201303**

Registration Slip

Name	Vikas Singhal
Email	hodmca@jssaten.ac.in
Mobile no.	09818088860
Organization	JSS Academy of Technical Education Noida
Department	Computer Applications
Category	Research Scholar
CSI Member	No
Mode of Payment	750/- Rs.

Signature of Participant

Verifying Authority

Signature of Coordinator

.....
(Registration Slip for Participant)

JIMS Engineering Management Technical Campus, Gr. Noida
NATIONAL WORKSHOP ON "MACHINE LEARNING AND INTERNET OF THINGS"
(09- 13 DECEMBER 2019)

We have thankfully received an amount of _____ Rupees from Mr. Vikas Singhal as a participation fees for One Week National workshop at JIMS Engineering Management Technical Campus, Gr. Noida (Affiliated to GGSIPU, New Delhi, Approved By AICTE, New Delhi)

Verifying Authority

Signature of Coordinator

Sample Feedback Form



**JIMS Engineering Management Technical Campus
Greater Noida**
NATIONAL WORKSHOP ON
“MACHINE LEARNING AND INTERNET OF THINGS”
(09- 13 DECEMBER 2019)



Participants Feedback Form

1. Title of the Programme:- **Machine Learning and Internet of Things**
2. Dates:- **From 09/12/2019 To 13/12/2019**
3. Venue:- **JIMSEMTC, Gr. Noida**
4. Name of the organizing department:- **Computer Science and Engineering**
5. Were you aware of the course objective before joining the programme? **Yes/No**
6. Please rate the programme in terms of:

Parameters	Excellent	Very Good	Good	Avg.	Poor
a) Selection and relevance of course contents					
b) Actual coverage of contents as listed in schedule					
c) Presentation skills and preparation of the Experts					
d) Quality of training materials					
e) Inputs from Industry/Field experts					
f) Adequacy of Sessions and Duration					
g) Usefulness of workshop for faculty members					
h) Soft skills of co-ordinator in handling of programme					
i) Extent of expectations fulfilled					
j) Overall Organization of workshop					
Overall Rating of the programme					

7. Please suggest any new/innovative programme for future training

- a.....
- b.....
- c.....

8. Please specify the main reason for attending this conference: (Please tick)

- a) Relevance of Content
- b) Personal growth and development
- c) Speaker
- d) Others(Specify) _____

9. Any Other Suggestion or Comment

.....

Signature of Participant

मशीन लर्निंग, आर्टिफिशियल इंटेलिजेंस पर प्रशिक्षण

ग्रेटर नोएडा। जिम्स इंजीनियरिंग कॉलेज ग्रेटर नोएडा के कंप्यूटर प्रौद्योगिकी विभाग तथा गुरु गोविंद सिंह विश्वविद्यालय दिल्ली के संयुक्त तत्वावधान में आयोजित एक सप्ताह की राष्ट्रीय कार्यशाला का समापन हुआ। वर्तमान के सबसे महत्वपूर्ण विषय मशीन लर्निंग एंड इंटरनेट ऑफ टेक्नोलॉजी पर आयोजित इस कार्यशाला में दिल्ली - एनसीआर के 20 संस्थानों के 85 से अधिक शिक्षकों तथा शोधार्थियों ने हिस्सा लिया। इस दौरान मशीन लर्निंग, आर्टिफिशियल इंटेलिजेंस और इंटरनेट ऑफ टेक्नोलॉजी विषय पर विस्तार से प्रशिक्षण दिया गया। कार्यक्रम के समापन सत्र में संस्थान के निदेशक डॉ. आरके रघुवंशी ने सभी प्रतिभागियों को बधाई दी और इस विषय पर शोध पत्रों के लेखन के लिए प्रेरित किया। कंप्यूटर प्रौद्योगिकी विभागाध्यक्ष डॉ. विकास चौधरी ने बताया की आने वाला समय मशीन लर्निंग और आर्टिफिशियल इंटेलिजेंस पर निर्भर करेगा। इसलिए निकट भविष्य में भी ऐसी कार्यशालाओं का आयोजन किया जाएगा। ब्यूरो

संपादकीय-लेख

जिम्स में मशीन लर्निंग पर कार्यशाला का हुआ आयोजन

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ग्रेटर नोएडा। जिम्स इंजीनियरिंग कॉलेज, ग्रेटर नोएडा के कंप्यूटर प्रौद्योगिकी विभाग तथा गुरु गोविंद सिंह विश्वविद्यालय दिल्ली के संयुक्त तत्वावधान में आयोजित एक सप्ताह के राष्ट्रीय कार्यशाला का समापन हुआ। वर्तमान के सबसे महत्वपूर्ण विषय "मशीन लर्निंग एंड इंटरनेट ऑफ टेक्नोलॉजी" पर आयोजित इस कार्यशाला में दिल्ली एनसीआर के 20 संस्थानों के 85 से अधिक शिक्षकों तथा शोधार्थियों ने भाग लिया। कार्यशाला में मशीन लर्निंग, आर्टिफिशियल इंटेलिजेंस और इंटरनेट ऑफ टेक्नोलॉजी विषय पर विस्तार से प्रशिक्षण दिया गया। कार्यक्रम के समापन सत्र में संस्थान के निदेशक डॉ. आर. के. रघुवंशी ने सभी प्रतिभागियों को बधाई दी तथा इस विषय पर शोध पत्रों के लेखन के लिए प्रेरित किया। कंप्यूटर प्रौद्योगिकी विभागाध्यक्ष डॉ. विकास चौधरी ने बताया कि आने वाला समय मशीन लर्निंग और आर्टिफिशियल इंटेलिजेंस पर निर्भर करेगा अतः निकट भविष्य में भी ऐसी कार्यशालाओं का आयोजन किया जाएगा।