Centurion University of Technology and Management

FDP

on

<mark>Machine Learning: Variant of Least Mean Square (LMS)</mark> <mark>Date: 18-01-2020, Time- 4 PM to 6 PM</mark>

No. of Faculty Participated: **15**

Venue: BBSR Campus

Resource Person

Professor Ganapati Panda

Professor and Research Advisor at C V Raman Global University, Bhubaneswar,

India About the resource person:

Professor Ganapati Panda is currently working as a Professor and Research Advisor at C V Raman Global University, Bhubaneswar, India. Professor Panda served as the Deputy Director, Dean (Academic Affairs) and Head, School of Electrical Sciences at Indian Institute of Technology, Bhubaneswar. He has successfully completed number of research projects from various funding agencies in India and other Countries. He is a Fellow of the National Academy of Engineering, India (FNAE) and Fellow of National Academy of Science, India (FNASc) for his significant research contribution to signal processing and machine learning.

Objectives:

To mimic a desired filter by finding the filter coefficients that relate to producing the least mean square of the error signal (difference between the desired and the actual signal). To Calculated, the least squares means are simply the average of these means. For treatment A, the LS mean is $(3+7.5)/2 = 5.25$; for treatment B, it is $(5.5+5)/2=5.25$. The LS Mean for both treatment groups are identical.

Outcomes:

Least mean squares (LMS) algorithms are a class of adaptive filter used to mimic a desired filter by finding the filter coefficients that relate to producing the least mean square of the error signal (difference between the desired and the actual signal). LMS filters are a class of adaptive filters that are able to "learn" an unknown transfer functions. LMS filters use a gradient descent method in which the filter coefficients are updated based on the instantaneous error signal. Adaptive filters are often used in communication systems, equalizers, and noise removal. Used in applications like echo cancellation on long distance calls, blood pressure regulation, and noise-cancelling headphones.

WORKSHOP ON

on

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DATE: 18-01-2020

Resource Person

Prof. Ganapati Panda

CUTM, Bhubaneswar, Odisha

Organised by:
Centurion University of Technology and Management

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Participant Lists:

Centurion University of Technology and Management
Bhubaneswar Campus
Faculty Development Programme on
"Machine Learning"
Topic – *Variants of Least Mean Square (LSM)*
and Recursive Least Square (RLS) Algorithm
Conducted by – *'Prof. Ganapati Panda'*
Attendance Sheet

Date: 18/01/2020

Time: 4.00 – 6.00 pm

Venue:

Sl No	Name	Dept. / Designation	Signature
1	Abhinna Ch Biswal	EEE/Professor	
2	Rajesh Kumar Mohanty	Inter-Disciplinary (Mech) Ph.D Scholar, CUTM	Rajesh
3	Adyasha Rath	CSE (Research Scholar 501)	Adyasha
4	Sagarika Paik	Botany / Assoc-Prof.	
5	Amit Sahoo	EEE / Ash-Prof	
6	Poninita Ou	CSE / SOVET	
7	Satyaprakash Naik	Research Scholar	Latya
8	Swati Das	Civil Engg. / Asst.Prof.	
9	Debashree .d. Behera	Mech Engg / Ast. Pna.	DDB
10	Swarna Prabha Jena	ECE / Assy. Prof	
11	Sagarika Panda	Civil Engg / Asst. Prof	
12	Sujata Chakravarty	CSE	
13	Rakesh K. Roy	CSE	
14	Bhabyaswyn Sahoo	Mech / Asst-Prof	
15	R.C.Mohanty	mech / Professor	
16			

Dr. Prasanta Ku. Mohanty
Dean Academic

Prabhat K. Pattnaik
FDP Coordinator