Department of Information Science & Engineering

EXPERT TALK SERIES -ODD SEM (2018-2019)

Course: Fundamentals of Machine Learning,   **Expert name:Mr.Vinay Harista,**

Audience: VII A&B   **Date:02-11-2018(10:00AM-4:50 PM)**

The department of Information Science and Engineering has conducted Expert talk on the topic **"Machine Learning – A Hands on approach"** for the VII semester A & B Section students on **02 November, 2018**under the supervision of ISE Head of the department, Dr.Anandhi R J at Chanakya Seminar Hall. The expert speaker, Mr.Vinay Harista, vTricks Technologies, Bengaluru was invited to conduct the same.

Speaker is multi skilled professional with 7+ years of experience spread across Machine Learning and Data Science in IT Sector. The need for Machine Learning and Data Science with the Real time applications was considered as the key area.

The expert was coordinated by Mr. Gangadhar Immadi,Sr.A.P, Mr. Vikas B O,AP and Mrs. Mounica B, Sr. AP,Department of ISE,NHCE

VARIOUS SESSIONS THROUGHT THE PROGRAM:

The event started with welcome speech by Ms.Aishwarya B, VII sem ISE and expert is welcomed by Dr.Anandhi R J, Professor and HOD-ISE with a sapling. The event was graced by all the professors, Dr.Jitendranath Mungara,Dr.Guruprasad N, Dr.Mohankumar S of the department.

Expert talk on Machine Learning – A Hands on Approach by Mr.Vinay Harista

TOPICS COVERED:

- ✓ Introduction to Machine Learning and Opportunities in IT
- ✓ Supervised and unsupervised learning
- ✓ Clustering : K-Means with Hands on experiment

- ✓ Artificial Neural Network: Backpropagation algorithm with hands on exercise
- ✓ Instance Based Learning : K Nearest Neighbor with Hands on experiment
- ✓ Reinforcement Learning : Basic and Q Learning algorithm

➢ INTRODUCTION TO MACHINE LEARNING:

Recent improvements in computers and communication technology have made huge amounts of information available to us. Fortunately there has been a drastic increase in processing power. One of the major challenges for computing lies in finding ways to organize the available processing power in order to extract maximum benefit from the available information. Different aspects of that problem are addressed by machine learning, knowledge discovery and data mining.

➢ CHALLENGES IN MACHINE LEARNING:

- o Understand the limits of contemporary machine learning technology
- o The black box problem
- o Talent deficit
- o Data is not free at all
- o Technology is very young
- o You need time to achieve any satisfying results and planning is difficult

➢ K Means Clustering:

- o Clustering is the classification of objects into different groups
- o Types of clustering
- o Distance Measure
- o K Means clustering algorithm and Example problems
- o Python Hands on exercise for K Means

➢ K Nearest Neighbor Classifier:

- o Basic concepts
- o Core algorithm
- o Problems
- o Hands on exercise in python

➢ Reinforcement Learning:

- o Agents
- o Rewards: Positive/Negative
- o Examples

o   Q Learning algorithm

The outcome of this program to the students provided good knowledge about the technologies in the Machine Learning,Tools, Clustering, K Nearest Neighbor Classifier, Reinforcement Learning

`List of Participants

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1NH15IS003	ADITI SINHA
1NH15IS004	AISHWARYA B
1NH15IS005	AKSHATHA M V
1NH15IS006	ALIA FATMA
1NH15IS007	AMULYA P
1NH15IS008	ANIRUDH PANCHANGAM
1NH15IS009	ANTORIKA CHAKRABORTY
1NH15IS010	ANUSHA H A
1NH15IS011	ARJUN BIKRAM THAPA
1NH15IS012	ARNAB PODDER
1NH15IS013	ARUNA D V
1NH15IS014	ARUNA M
1NH15IS015	ASHIKA UDUPA
1NH15IS016	B LEESHA
1NH15IS017	BALAJI V
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1NH15IS019	BHRAMINI
1NH15IS020	BHUSHITHA S
1NH15IS021	BIKASH PRAJAPATI
1NH15IS022	BIKKY KUMAR GOIT
1NH15IS023	BIPIN SIMKHADA
1NH15IS024	BUDHIL VYAS
1NH15IS025	CHANDANA RAMESH
1NH15IS026	CHINTHA REDDY MANI KANTA REDDY
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1NH15IS028	DARSHANA DECHAMMA M D
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1NH15IS030	DEEKSHA S
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1NH15IS033	DEVI PRASANNA
1NH15IS035	G BHAVYA
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