REPORT

on

ONLINE FDP on "MACHINE LEARNING AND DATA SCIENCE"

Karnataka Law Society's, Vishwanathrao Deshpande Institute of Technology, Department of Computer Science and Engineering conducted an online FDP on "**Machine Learning and Data Science**"- in association with IEEE from 31st Aug to 4th September 2020. This was a 5 days program where various related subtopics were discussed in detail by the eminent faculties and resource persons. A very beneficial academic environment was experienced by the participants. This FDP program focused on the procedure to do research. As a researcher it is mandatory for one to know the basics and have a core idea in order to satisfy the purpose of research and establish an acceptable conclusion.

Computer Science and Engineering Department of KLS VDIT Haliyal, conducted this FDP to enable participants to learn and conceptualize Data science and Machine learning in various areas like Image Processing, healthcare, etc. this program was organised for Discussing the research opportunities in the field of Machine Learning. This was organised for Imparting the knowledge on different algorithms such as regression, classification and clustering.. This program summarized the aspects relating to collection of data, analysing and finally framing it into a research paper. This FDP intended to orient the participants towards developing their own research plans with due attention to every stage of research. This program was attended by 200+ participants. Attendees included Research scholars and academicians from various backgrounds. Certificates were sent online to the participants after the fifth day session of FDP program.

The online FDP started on 31st August, where dignitaries were welcomed by our beloved HOD, Prof. Poornima Raikar.	Prof. Poornima Raikar

The Chief Guest for the inaugural function of online FDP was Dr. V. V. Katti, Principal, KLS, VDIT, Haliyal. He also addressed the gathering encouraging all of us to learn and develop	Dr. V. V. Katti

The first session on the first day started at 11:00 AM. Our first speaker was Dr. Shashidhar Koolagudi, Associate Professor, Dept. of CSE, NITK Surtkal.

The first session was on the topic "Introduction to Machine Learning and its Applications" by Dr. Shashidhar Koolagudi. He discussed about his projects that he completed in this area during his research. This was an inspiration to others in finding their research areas.	Dr. Shashidhar Koolagudi

The second session of the first day started at 02:30 PM. Our speaker was Dr. Sunil Soumya, Assistant Professor, Dept. of CSE, IIIT, Dharwad.

The second session was on the topic "Data Preprocessing Techniques" by Dr. Sunil	Dr. Sunil Saumya

Saumya. The speaker discussed about data engineering and feature engineering. He showed how to convert raw data into a prepared data. He performed hands on action and cleared all the doubts of the participants.	

The first session of the second started at 11:00 AM. Our first speaker was Dr. P. Radhakrisha, Professor & Head, Dept. of CSE, NIT Warangal.

	Dr. P. Radhakrishna
The first session of second day was on the topic "Data Wrangling" by Dr. P. Radhakrisha, Professor & Head, Dept. of CSE, NIT Warangal. The speaker discussed about Data wrangling being a process of gathering, selecting, and transforming data to answer an analytical question. Also known as data cleaning or "munging".	

The second session of the second day started at 02:30 PM. Our speaker was Mr. Salman Khan, Senior Solution Architect, Liferay Inc., Bengaluru.

	Mr. Salman Khan
The second session of second day was on the topic "Getting Started with Machine Learning- Hands on" by Mr. Salman Khan, Senior Solution Architect, Liferay Inc., Bengaluru. The speaker discussed about installation and basics of python. He also discussed basic algorithms to start with Machine Learning.	

The first session of the third started at 11:00 AM. Our first speaker was Dr. R. B. V. Subramaanyam Professor Dept. of CSE, NIT, Warangal.

The first session of third day was on the topic "Classification Techniques in Machine Learning" by Dr. R. B. V. Subramaanyam Professor Dept. of CSE, NIT, Warangal. The speaker discussed about how to classify the data. He solved problems on decision making also.	Dr. R. B. V. Subramaanyam

The second session of the third day started at 02:30 PM. Our speaker was Dr. Sunil Soumya, Assistant Professor, Dept. of CSE, IIIT, Dharwad.

The second session of third day was on the topic "Building NN model for SMS spam Identification- Hands on" by Dr. Sunil Saumya. The speaker discussed about data engineering and feature engineering. He showed how build models for the problems.	Dr. Sunil Saumya

The first session of the Fourth day started at 11:00 AM. Our first speaker was Mr. Gautam S. Founder & CEO HAEGL Technologies, Dharwad.

The first session of fourth day was on the topic "Implementing CNN- Hands on" by Mr. Gautam S. Founder & CEO HAEGL Technologies, Dharwad. The speaker discussed about his research experiences in the field of CNN. He has shown his projects related to CNN which was an inspiration for others to pursue their research in the field.	Mr. Gautam S

The second session of the fourth day started at 02:30 PM. Our speaker was Dr. N. V. Dharwadkar Professor Dept. of CSE, RIT, Islampur.

The second session of fourth day was on the topic "Feature Extraction and Machine Learning Algorithms- Hands On" by Dr. N. V. Dharwadkar Professor Dept. of CSE, RIT, Islampur. The speaker discussed about different feature extraction techniques like PCA, LDA and ICA.	Dr. N. V. Dharwadkar

The first session of the fifth day started at 11:00 AM. Our first speaker was Dr. Arunkumar, Associate Professor, Dept. of CSE, TCE, Gadag.

The first session of fifth day was on the topic "Machine Learning for Image Processing" by Dr. Arunkumar Associate Professor, Dept. of CSE, TCE, Gadag. The speaker discussed about image acquisition, image preprocessing, and algorithm. He also discussed how to perform image post processing.	Dr. Arunkumar

The second session of the fifth day started at 02:30 PM. Our speaker was Dr. Sanjeev Sannakki Professor Dept. of CSE, GIT, Belagavi.

The second session of fifth day was on the topic "Machine learning Research concerns and challenges" by Dr. Sanjeev Sannakki Professor Dept. of CSE, GIT, Belagavi. The speaker discussed about disease detecting using leaves and fruits. He also discussed on precision agriculture.	Dr. Sanjeev Sannakki