Report on

Two WeekFDP on "INTRODUCTION TO PYTHON AND MACHINE LEARNING USING PYTHON"

Date(s): 17.05.2021 to 26.05.2021

Faculty development programs (FDP) have long been a useful instrument for improving educators' capacity for teaching and research in order to fulfill the ever-demanding needs of the knowledge sector. With the goal of gaining proficiency in the most recent developments in information technologies, a Two-week FDP on "**Introduction to Python and Machine Learning using Python**" is being held by Koneru Lakshmaiah Education Foundation, KLEF. The goal of this technical faculty development initiative is to advance machine learning research frontiers.

The event began with an invocation song, and the chief guest, Dr.A.Srinadh, Principal, Academic Staff College (ASC), lit the lamp along with other dignitaries.Dr.Senthil Kumar, the head of the department of computer science and engineering, gave a heartfelt welcoming speech. The importance of machine learning and its uses in business and academia were emphasized along with the value of industry-institute contact in order to expose faculty and students to the most recent advancements and innovations in the industry.

In his inaugural address, the resource person, Mr. S Ramesh Kumarinspired all the faculties with a lecture about the teaching-learning process, lifelong learning, and its significance. Mr. T.T. Sandeep gave an overview of machine learning, a cutting-edge technology, and the five-day FDP's schedule.

The FDP mainly focussed on,

Introduction to Machine Learning, Problems and Case Studies, Descriptive and Inferential Statistics—the latter of which is crucial for any learning algorithms. Introduction to Python and Python problem solving.

Python problem solving is continued followed by a Python hackathon using the Xobin bootcamp online platform. Pandas is used to handle real datasets, Numpy is used to use a mathematics library, and Matplotlib is used to visualize data using a Jupyter notebook in sessions three and four. Each content trainer completed one case study before assigning the participants to tackle a second problem. Every participant gave Python Hangover their full attention. Binarization of the data and randomized algorithms for predictions.

Percepton—a model of a human brain neuron—was covered. Using various datasets, it was seen how the Perceptron behaved. The most potent classifier, Naiive Bayes, is covered for several datasets. Case studies for the Support Vector Machine and K Nearest Neighbor classifier.Backpropagation Concept and Linear Vector Quantization (VCQ) Principal Component Analysis, Tensorflow-powered text mining, natural language processing, recommendation systems, and sentiment analysis were also covered.

Concerning valedictory, program ended by thanking the resource persons for their valuable inputs given to faculty members. The program was very much hands-on, informative and was appreciated by most of the attendees.


Academic
Staff College
Certificate of Participation
This is to certify that
Dr. K.V.S.N.RAMA RAO
Has participated in the
Ten-days Faculty Development Program on
Introduction to Python and Machine Learning using Python
During 17.05.2021 to 26.05.2021.
Principal
ASC
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