Report on
A Two-Day National Level Workshop on
"Machine Learning for Mechanical Engineering"
Organized by
Department of Mechanical Engineering
During 21st and 22nd September, 2022

Submitted by: Mr. Pujari Rajesh, Assistant Professor, Department of Mechanical Engineering

Attendance: 347 participants (internal & external)

The inaugural programme starts at 10:00 PM with a prayer song followed by a welcome address to all the audience by the Mr. P Rajesh, Assistant Professor, ME, MITS, Madanapalle. The programme was successfully forwarded with the encouraging words by Dr. C Yuvaraj, Principal, MITS and Dr. M Lakshmana Rao, Head, Dept. of ME. The resource person Dr. YVK Ravi Kumar, Associate Professor, Dept. of Mathematics, BITS-Pilani, Hyderabad Campus was introduced by Dr. M Lakshmana Rao, Head, Dept. of ME.

The broad objective of this workshop is to introduce Machine Learning (ML) for Mechanical Engineering. ML techniques are widely used for many applications such as Biometrics, Medical Imaging Processing, Natural Language Processing, and so on.

This course will give the basics of ML concepts with applications to computer vision. It will help to upgrade the expertise and capabilities of the students and faculty members of various departments of MITS and will generate a climate for research and enthusiasm for academic excellence. The objective of the workshop is to provide the theoretical fundamentals coupled with practical knowledge of Machine Learning.

The resource person started the session by extending his hearty thanks to the participants, organizing members, HoD, Principal and Management of MITS Madanapalle for giving him opportunity to share his knowledge and experience in" Machine Learning for Mechanical Engineering".

In the day one, the eminent resource person delivered a very informative session on statistical methods used in Machine Learning. Also, he focused on the different Machine Learning Algorithms. Another resource person Dr. P Ramesh Reddy, Asst. Professor & Head, Dept. of Mathematics, MITS, was focused on Hypothesis Testing in the machine learning applications. In the second day, the forenoon session was started with Dr. M Lakshmana Rao. He concentrated on linear and multi-linear regression. The afternoon session was handled by Dr. Anantharaman L, Asst. Professor, Dept. of ME, MITS. He delivered a knowledgeable lecture on Machine Learning in the Cloud. At the end, the prominent speaker underlined the career opportunities for graduates. Also, the speaker assured to help the participants/students for any kind of projects on Machine Learning stream.

The session was concluded followed by a vote of thanks, given by Mr. P Rajesh, Asst. Professor, Department of ME, MITS, Madanapalle.

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