

RUCHA KALEIDOSCOPE

Rucha Engineers Pvt Ltd

March 2021 Issue # 20



25 YEARS
AND STILL
GROWING

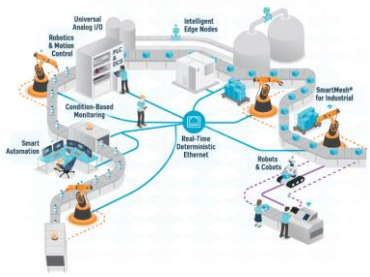
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AWARDS, APPRECIATIONS & FELICITATIONS



CONGRATULATIONS TO MR. AMIT KUMAR SINGH (PLANT VII)

This is incredible moment for runner up Mr. Amit Kumar Singh from Plant VII, who achieve Award in Slogan Competition organized by Quality Circle Forum of India (QCFI) during Safety week; 4th March to 11th March. The competition comprised of Poster, Slogan, Poem & Essay etc. Mr. Amit Singh (TPM Coordinator- Plant VII) won the second prize for his slogan **"A HAZARD MITIGATED TODAY CAN MEAN AN INJURY PREVENTED TOMORROW SO, DON'T SEEK TO PLACE BLAME, SEEK TO FIND A SOLUTION"**

We Congratulate him on his well deserved success.





TECHNICAL BLOGS

MACHINE LEARNING: AN OVERVIEW

Thank you for staying tuned to Rucha Yantra's blog series. Previously, we have shared our knowledge and general information on next-gen technologies such as Industry 4.0, IOT, and AI. With this blog, we are starting a series on Machine Learning (ML).



First, we shall try to answer the most basic questions like:

- What is Machine Learning?
- What is the basic process of ML?
- What are the major real-world applications of ML?

So, let's start answering. Hope you find the ML series useful.

What is Machine Learning?

At its core, it is a tool for turning information into knowledge. Today, we are witnessing, with the rise of digital offerings and connectivity, an explosion of data. This vast mass of data is useless unless we use it to improve the offerings and solve real-world problems. Machine Learning is a tool to automatically find valuable underlying patterns within complex data that is otherwise quite difficult.

As the name suggests, Machine Learning algorithms continuously 'learn' through the inputs we provide to the system. Using the input data, they discern rules and relationships within the data. As they grow 'wiser,' they can answer similar questions automatically and with greater accuracy. In contrast to traditional algorithms wherein

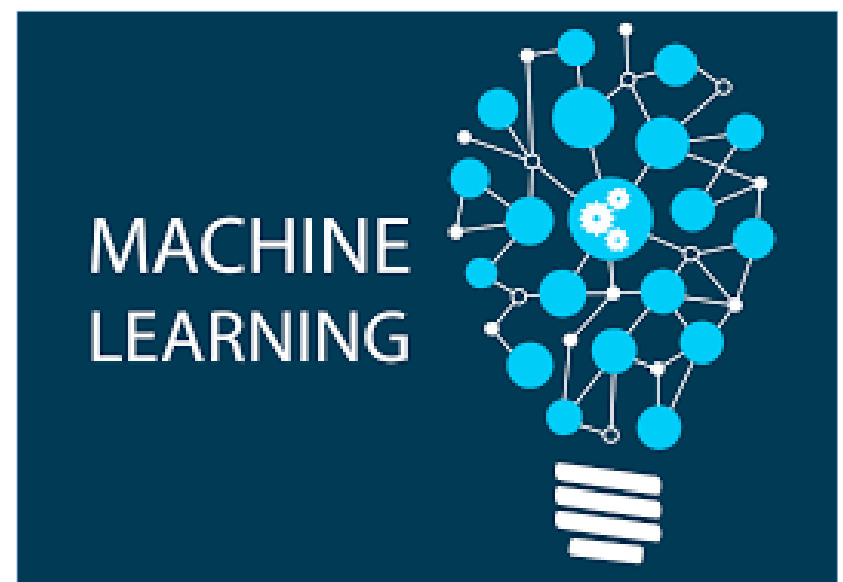
MACHINE LEARNING: AN OVERVIEW

humans created rules to find answers to questions, ML uses data and already-available solutions to discover the rules behind a problem.

BASIC TERMINOLOGY AND PROCESS OF ML:

There are broadly three significant terms one should know while getting to know ML:

- **Features:** Important pieces of data that describe a particular problem. They are fed into an ML program to help it learn the problem.
- **Dataset:** A set of examples of data. These examples contain features essential to solving the problem.



Model: It is the output of training an ML algorithm. It is the representation of the relationship that the algorithm discovers within the data.

Process:

- 1.Data collection: Collecting the data to feed into the algorithm
- 2.Data preparation: Extracting important features and engineering the data into an optimal format
- 3.Training: The stage where the algorithm learns using the data
- 4.Evaluation: Testing the model's performance
- 5.Tuning: Improving and optimizing the algorithm performance.

Where is ML applied currently?

Most of us are unaware that we already interface with ML daily. Let us look at how in five different ways:

MACHINE LEARNING: AN OVERVIEW

1. Social Media Features

We all spend significant time on social media platforms. We all get suggestions of people and social media pages to follow on Facebook, Instagram, Twitter, etc.

But do you know how these platforms decide what suggestions to make to you? Enter Machine Learning. It helps such platforms learn about us from our activities, chats, likes, comments, etc., and then identify people and pages to suggest.

2. Product Recommendations

When you buy something on Amazon or Flipkart, you must be getting recommendations of other products to buy. These, too, are powered by ML. E-commerce websites learn about your behavior based on your purchases, search patterns, etc., and then recommend additional products for you to buy.

3. Email Spam and Malware Filtering

While working through our email inbox, we usually see labels such as 'important,' 'normal,' and spam. Whenever a new mail is received, it is scanned and filtered automatically by an ML algorithm into such folders. As we manually mark our emails, the ML algorithm learns more about our preferences and becomes more accurate in filtering.

4. Predict Potential Heart Failure

ML is hugely impacting medicine and healthcare. Traditionally, a physician would dig through multiple health records of a patient to conclude a diagnosis. However, with ML algorithms, a doctor's e-notes can be analyzed in seconds to identify patterns in patient history. Such analysis helps in predicting eventualities such as heart failure.



TECHNICAL BLOGS

MACHINE LEARNING: AN OVERVIEW

5. Language Translation

We all must have used the online translation tools while communicating in multiple languages, especially when traveling overseas and talking to foreigners. Such translation tools are powered by robust ML algorithms that get better every time we make a query and select the most suitable translation option.

Now that you have seen the most prevalent and real-world examples of how ML is used, you shall be better able to appreciate its impact and growing presence. Rucha Yantra is committed to incorporating technologies such as ML in its products to better serve our customers. In the next blog, we shall delve deeper into ML and look at the different approaches to Machine Learning. Stay tuned to our [Knowledge Corner](#) for further blogs!

Enjoy the read by clicking the link below!

<https://www.yantrallp.com/blog/machine-learning-an-overview/>

[#ruchayantrallp](#) [#machinelearning](#) [#ML](#) [#technology](#) [#futuretechnologies](#) [#blog](#)



SPECIAL PROJECTS, EVENTS & AUDITS



WOMAN's DAY CELEBRATION

International Women's Day (IWD) is celebrated on the 8th of March every year. International Women's Day is dedicated to celebrating women's achievements in the social, economic, cultural, and political spheres. The day, collectively founded by women, also brings attention to gender parity and women's rights.

Every year we celebrate Women's day by arranging variety of events & programs like; workplace safety awareness, educational programs, by greeting ladies staff with flowers & memento, sessions on women's health, game events & cake cutting cause any special day is incomplete without it. 'Our Director and Head of Rucha Vishakha Committee Dr. Jyoti Dashrathi Madam' has shared a cheerful & encouraging message for all the women staff members on this occasion.

“A big thanks to all ladies staff members for your valuable contribution”



Plant I



Plant II



Plant III



Plant IV



Plant V



Plant VI



Plant IX



SAFETY WEEK CELEBRATION

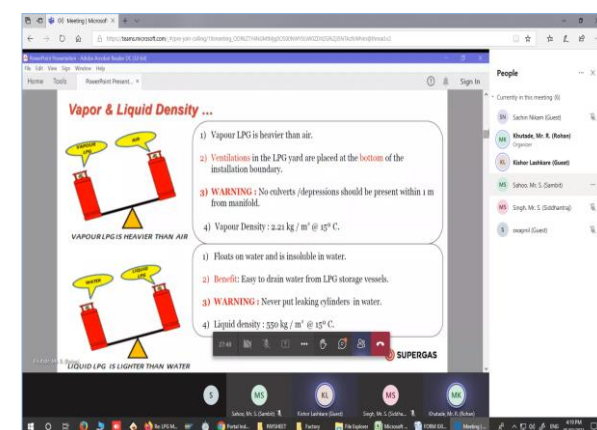
Safety week is celebrated at Rucha group from 4th March to 11th March 2021. In this regard, each Plant HR shall execute the following activities at their respective Plants.

OBJECTIVES :

- Ensure that safety and health is integrated in work culture and life style.
- Renew the commitment of the employees towards safety and health at workplace.
- Achieve greater participation of the employees in OSH activities.

At Workplace :

- Displayed Safety Week Banners at Plant Entrance.
- Safety Badge, Slogans, Posters,
- Mock Drills, Training Programmes.
- Practical demonstrations on the use of PPEs, Fire Fighting, rescue.
- Safety Posters displayed at prominent locations in the unit.
- Exclusive Online Training session on Healthy diet, LPG Gas Safety.





TRAINING & DEVELOPMENT



**"I grow not because I know, I grow because
I learn ..."**

Below are the trainings arranged for our employees relevant to their work areas.



Sr. No	Training Topic	Participants
1	Worth of Woman In Daily Life	29
2	Healthy Diet	22
3	Collaboration and Teamwork	27
4	LPG Manifold Safety Training - Super gas	12
5	Emergency Mock Drill & Safety Awareness	09
6	The Code on Wages, 2019: Impact and Readiness.	11
7	Employer Brand & Employee Experience	11
8	Hyper Mesh Software	02
9	Webinar on Solution for Water Pollution - Online Continuous Emission & Effluent Monitoring Systems (OCEMS)	11
10	Human Capital Conclave	10
TOTAL		144

TRAINING & DEVELOPMENT

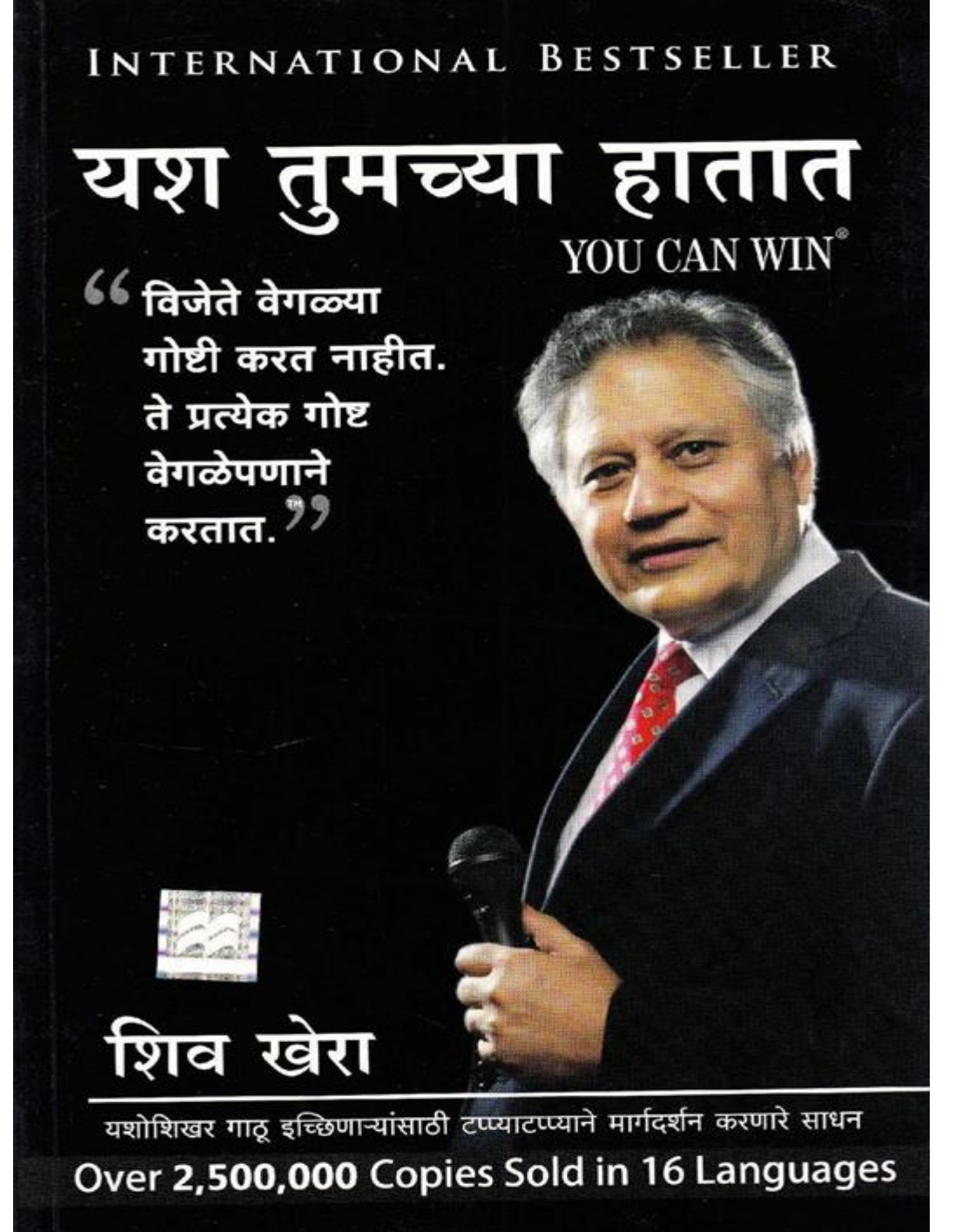
POPULAR BOOKS AVAILABLE AT OUR LIBRARY...!! SUGGESTED TO READ

The book “ Yash Tumchya Hatat ” is a Marathi Translated Version of “You Can Win” by Mr Shiv Khera . This book tells about invaluable guideline to those strive for success.

Introduction: Succeeding means never failing, but reaching the ultimate goal. This does not mean winning every battle, but winning the war.

People who have literally wandered into life to meet you . They keep accepting whatever happens by fate. Some of them succeed by accident, but most of them are plagued with failure and dissatisfaction for the rest of their lives.

This book is to enable you to live a prosperous and perfect life.



Happy reading.....!! Explore many such worthy books of your choice through our Library Management System, available on Rucha portal.

https://www.rucha.co.in/portal/index.php/LMS/LMS_cntr/user_DashBoard



EMPLOYEE HEALTH CHECKUP CONDUCTED AT PLANTS - V

Healthy staff will always give their best to organization and we think investing in them is more beneficial in a long run. Drop in absenteeism i.e. reduces employees sick leaves. Greater employee satisfaction & positive employee morale in the workplace. Improves loyalty of staff. Results in Increase of overall productivity.



As per our regular practice every year we organize periodical health check-up for our valued employees, Medical Checkups comprises of; Color Vision Test, Audiometry, ECG, BP, Puls, SPO2, CBC, BSL & Blood Group. Considering current scenario in the whole world we all know how Health more important than wealth!!



CORPORATE SOCIAL RESPONSIBILITY



MEMORANDUM OF UNDERSTANDING (MOU) WITH GOVERNMENT ITI

RUCHA Group possesses equal concern for social objectives and the organization has nurtured this sense for public cause since its inception.

We have made an MOU with Govt ITI's (Aurangabad & Gangapur) for Fitter & Welder Trade Under “Dual Training System” where 40 Apprentices shall be provided for 3 months of period. The Scheme shall be effective from March 2021 to May 2021.

Benefits of MOU :

- 1) 30% Stipend cost will be saved per apprentice as company have to pay only 70% amount of the stipend to apprentice for 3 months
- 2) The same will be implemented at all Plants of Aurangabad region.





MOTIVATIONAL STORY : VALUE



A popular speaker started off a seminar by holding up a \$20 bill. A crowd of 200 had gathered to hear him speak. He asked, “Who would like this \$20 bill?”

200 hands went up.

He said, “I am going to give this \$20 to one of you but first, let me do this.” He crumpled the bill up.

He then asked, “Who still wants it?”

All 200 hands were still raised.

“Well,” he replied, “What if I do this?” Then he dropped the bill on the ground and stomped on it with his shoes.

He picked it up, and showed it to the crowd. The bill was all crumpled and dirty.

“Now who still wants it?”

All the hands still went up.

“My friends, I have just showed you a very important lesson. No matter what I did to the money, you still wanted it because it did not decrease in value. It was still worth \$20. Many times in our lives, life crumples us and grinds us into the dirt. We make bad decisions or deal with poor circumstances. We feel worthless. But no matter what has happened or what will happen, you will never lose your value. You are special – Don’t ever forget it!



RESPECT

Honor for
Dignity &
Sanctity

URGE

To strive for
Innovation and
Excellence

CONFIDENCE

To welcome
and Embrace
Change

HONESTY

Stand for
Truth and
Transparency

AMBITION

Strong Drive
for Growth



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Building Bright Future
with **Green Commitment**