



# **RV INSTITUTE OF TECHNOLOGY AND MANAGEMENT®**

( Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)  
Chaitanya Layout, JP Nagar 8<sup>th</sup> Phase, Kothanur, Bengaluru-560076

## ***Department of Computer Science and Engineering & Information Science and Engineering***

### **FDP on “Importance of Data Science in Machine Learning”**

**6<sup>th</sup> to 10<sup>th</sup> February 2023**

|                        |                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Event Name</b>      | <b>FDP on “Importance of Data Science in Machine Learning”</b>                                                                                                                             |
| <b>Date</b>            | 6 <sup>th</sup> -10 <sup>th</sup> Feb 2023                                                                                                                                                 |
| <b>Venue</b>           | Online , RVITM                                                                                                                                                                             |
| <b>Audience</b>        | National Level FDP, faculties from various Colleges                                                                                                                                        |
| <b>Resource person</b> | 1. Mr. Vivek Chaudhary<br>2. Dr. Snehanshu Saha<br>3. Dr. Nithin Nagaraj<br>4. Mr. Anmol Agrawal<br>5. Dr. Abhijeet Joshi & Dr. Deepak Nagar<br>6. Dr. Srinivasan<br>7. Dr. Malini M Patil |

### **Objective**

**The workshop aims to provide technical knowhow on how data science is important in Machine Learning , what are the mathematical insights of an ML algorithm and how it can be used on various datasets. How to identify on which sets of data which algorithm would be best suited.**

**FDP – Brochure**



**RV Institute of Technology and Management<sup>®</sup>**  
Research Oriented  
Innovative Approach  
Quality Education

Organized by  
Department of  
Computer Science and Engineering  
&  
Information Science and Engineering

**IMPORTANCE OF DATA  
SCIENCE IN MACHINE  
LEARNING AND IT'S  
APPLICATIONS**

 **Five Day  
Online Faculty Development  
Programme**

**6th Feb  
2023** to **10th Feb  
2023**



**CHIEF PATRONS**

**Dr. M. P. Shyam**  
President, RVST

**Dr. (h.c.) A.V.S. Murthy**  
Hon. Governor, RVST

**Sri, D.P. Nagaraj**  
Hon. Joint Secretary, RVST

**Sri, K.G. Subbarama Setty**  
Hon. Treasurer, RVST

**PATRON**

**Dr. Jayapal R**  
Principal, RVST

**CONVENER**

**Dr. Malini M. Parthi**  
Professor & Asst. CS

**Dr. Latha C.A**  
Professor & Asst. IS

**PROGRAMME COORDINATORS**

**Dr. Surbhi Agrawal**  
Associate Professor, CS

**Dr. Niharika P Kumar**  
Associate Professor, IS

**ORGANIZING COMMITTEE**

**Prof. V R Srividhya**  
Associate Professor, CS

**Prof. Deepak D. J**  
Associate Professor, IS

**Ms.Chaitra H R**  
Programmer

**Mr. Abhishek V**  
Lab In-Charge

**RESOURCE PERSONS**

**Mr. Vivek Choudhary**  
Data Science & ML Research Fellow, Amazon

**Mr. Abhijeet Joshi**  
Technology Professional, Siemens Bangalore

**Mr. Deepak Nagar**  
Technology Professional, Siemens Bangalore

**Dr. Snehasishu Saha**  
Associate Professor, IITB Pilani

**Dr. Nikin Nagendra**  
Associate Professor, IITB, Bangalore

**Dr. Malini M. Parthi**  
Professor & Head, Dept. of CS, RVST

**Mr. Sama Dhavala**  
Principal ML Engineer, Redbus.in

**Dr. Gowri Srinivasa**  
Professor, IIS University

**Dr. A. Srinivas**  
Professor & Head, DataScience, RVST, Bangalore

**Mr. Anmol Agrawal**  
Data Science Manager - Symphony Digital

**Registration Fee**  
Academics/Asst and Students: Rs 250/-  
Industry delegates: Rs 500/-  
E-Certificates will be issued to those participants who attend all the sessions.



**RV Institute of Technology and Management, Bangalore**  
Department of  
Computer Science & Engineering  
And  
Information Science & Engineering

Five Day Online FDP on  
**IMPORTANCE OF DATA SCIENCE IN  
MACHINE LEARNING AND IT'S  
APPLICATIONS**  
6th February 2023 to 10th February 2023

**Registration Details**  
To register click here  
<https://forms.gle/8PQRAAYse8PyPUW8>

Payment Details are provided in above mentioned link  
Payment can be made through UPI ID.  
Kindly avoid using the same phone number / UPI ID for multiple payments  
\*Payments are inclusive of RVST

**Address For Communication**  
fdp.rvitm@rvvit.edu.in



**ABOUT RVST**  
Managed by Kashiwaga Education Society's Trust (RVST), RV Educational Institutions envision providing innovative learning, instill a spirit of enquiry, instilling healthy challenges, encouraging sustainable accomplishments, and ensuring enriching rewards to all students, parents, teachers and associates. RVST believes that every individual from each stratum of society needs the education to fulfil their aspirations. Following this belief, Sri M. C. Gwendalo James, a renowned freedom fighter, educator, and administrator laid the foundation of RV Educational Institutions in the year 1940. Today, RV has become one of India's largest educational consortium with 20 institutions and more than 20,000 students to realize the vision of creating an atmosphere of lifelong learning. RVST successfully established one of its most ambitious projects, RV Institute of Technology and Management (RVITM) in 2019.

**ABOUT RVITM**  
RV Institute of Technology and Management (RVITM) is a self-financing institution established in Bangalore in the year 2019. Building the future of Science and Technology with a singular vision — to prepare students for the world beyond classrooms. To this effect, we offer four undergraduate programs that provide experiential learning through an ICT enabled curriculum and state-of-the-art infrastructure. We back this up with our holistic approach to education that enables our students to be more than engineers — RVITM encourages them to be bold thinkers — challenging the status-quo in everything they strive to do...

**ABOUT FDP**  
This FDP aims to emphasize as to why data science knowledge is a must before applying machine learning models. It also gives hands-on training on methods of data analysis and how data engineering can be performed and applied in machine learning in various domains. As the FDP is a blend of concepts and hands-on training it will offer deeper insight and, hence, will help academicians, students and industry experts in carrying out research and projects. The FDP also aims to create awareness to new challenges and upcoming research options. Significantly, the FDP will also discuss a few new aspects of data engineering. Motivation for the FDP has come from the observation that most of the researchers and others are using machine learning without having the deep knowledge and understanding of data which may take them in wrong direction. This FDP will put this understanding gap and provide a fruitful learning experience.



## 1) Agenda

|                                                                                   |                                            |                                                                                    |                      |
|-----------------------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------------------------------|----------------------|
|  | RV Institute of Technology and Management® |  | Go, change the world |
| <b>AGENDA</b>                                                                     |                                            |                                                                                    |                      |
| <b>INAUGURATION</b>                                                               |                                            |                                                                                    |                      |
| 6th February 2023                                                                 |                                            |                                                                                    |                      |
| <b>9.30 A.M.</b>                                                                  | <b>INVOCATION SONG</b>                     | <b>Mrs. Chaitra H R,CSE</b>                                                        |                      |
| <b>9.35 A.M.</b>                                                                  | <b>WELCOME ADDRESS</b>                     | <b>Dr. Jayapal R.,<br/>Principal,RVITM</b>                                         |                      |
| <b>9.40 A.M.</b>                                                                  | <b>ABOUT THE FDP</b>                       | <b>Dr. Latha C A,<br/>Head-ISE,RVITM</b>                                           |                      |
| <b>9.45 A.M.</b>                                                                  | <b>VOTE OF THANKS</b>                      | <b>Prof. Deepak D J,<br/>ISE,RVITM</b>                                             |                      |

## 2) Report with Photos

This FDP has been proposed to have deeper insights about how much understanding of data , it's statistics , it's interpretation is important before we use ML techniques on them. We had eminent faculties from various Institutes across India. We had a182 participants who attended this FDP from Institutes like VTU-Belagavi, SJCE-Mysore, Acharya Institute-Bengaluru, Canara Engineering College-Mangalore, Sai Vidhya Institute, East Point College of Engineering, ITM Group of Colleges -Gwalior, Presidency University- Bangalore, PES University -Bangalore, BNMIT -Bangalore, CMR University -Bangalore, Nitte Meenakshi-Bangalore, Global Academy Technology-Bangalore, KNS Institute Of Technology-Belahalli, Alliance College of Engineering and Design, Alliance University, , KLS VEDIT-Haliyal, Sri Sairam college of Engineering Bangalore, Ramaiah Institute of Technology-Bangalore, Dayanada Sagar University-Bangalore, NMAM Institute of Technology, Nitte, St.Joseph Engineering College, Mangalore, Institute of Engineering and Management-Kolkata, KSIT-Bangalore, SGBIT-Belagavi, JSSSTU-Mysuru, GMIT-Davanagere, REVA University-Bangalore, RNSIT-Bangalore, Shri Madhwa Vadiraja Institute of Technology and Management-Bantakal,Udupi, DSCE-Bangalore, APS College of Engineering-Bangalore, Velammal Institute Of Technology , Anna University-Chennai, DSATM Bangalore, JSS academy-Bangalore, BCE, Shravanabelagola, Ambedkar Institute of Technology Bangalore, Ballari Institute of Technology and Management-Ballari, T. John Institute of Technology-Bangalore, Coorg Institute of Technology, Rajagiri College of Social Sciences-Kochi, SDMCET-Dharwad, KIT -Tiptur, Ramaiah University of Applied Sciences, Bangalore Institute of Technology-Bangalore and RVITM-Bangalore.

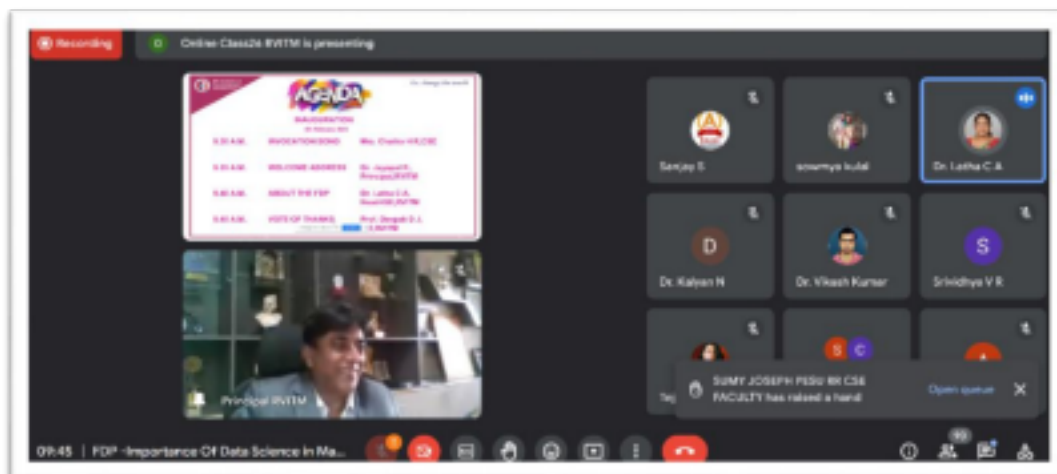
The speakers of all the sessions were welcomed and so were the participants. The speakers were from premier Institutes like BITS, GOA, National Institute of Advanced Studies, Bangalore, RNSIT Bangalore , RVITM, Bangalore. PES University Bangalore, and Industry experts from AlmaBetter Bengaluru, WadhvaniAi, Symphony RetailAi, Siemens Technology. They all have vast and deep knowledge in the area of data science and machine learning in their working domains and hence will

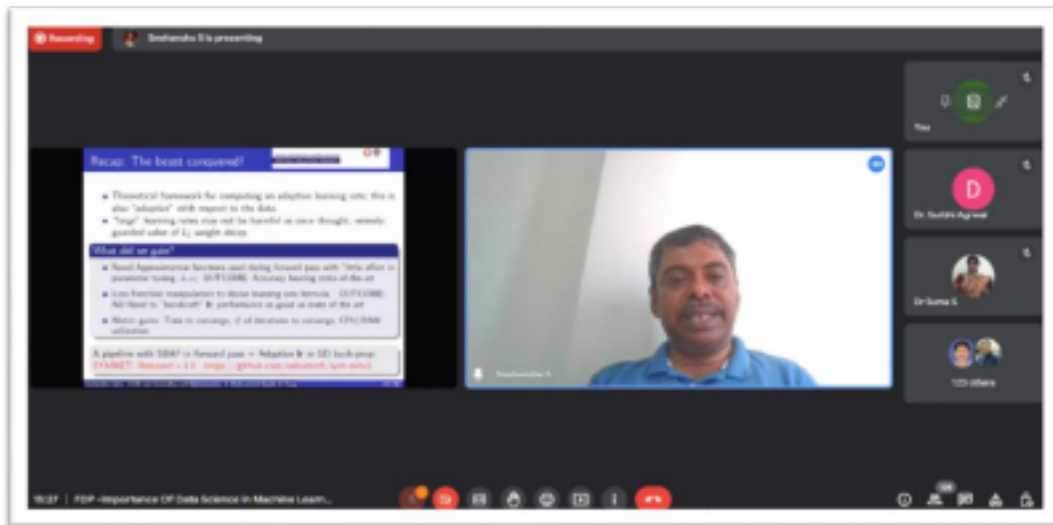
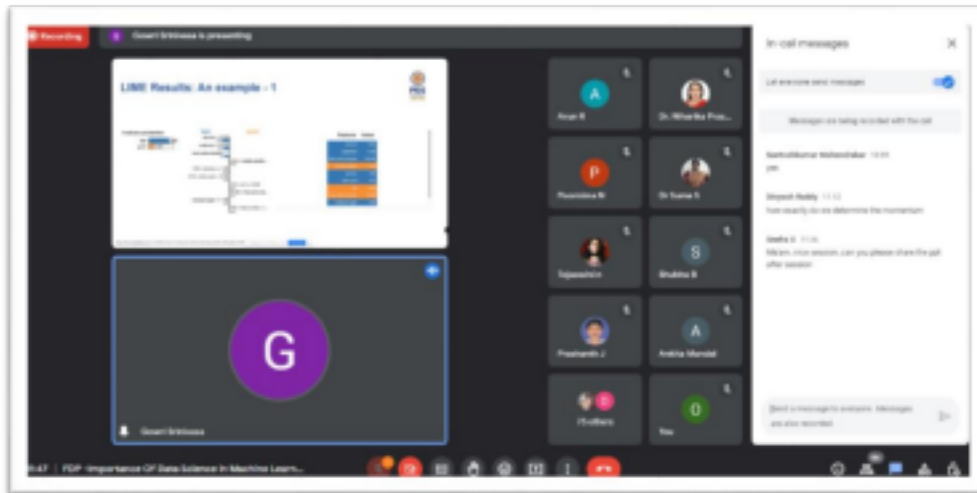
introduce. The Schedule is given below.

|  <b>RV Institute of Technology and Management, Bengaluru</b><br>Organized by<br>Department of Computer Science and Engineering and<br>Department of Information Science and Engineering<br><b>Five Day Online Faculty Development Program on</b><br><b>IMPORTANCE OF DATASCIENCE IN MACHINE LEARNING AND ITS APPLICATIONS</b><br><b>6<sup>th</sup> February 2023 to 10<sup>th</sup> February 2023</b> |                                                                                                |                                                                                                    |                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>PROGRAM SCHEDULE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                |                                                                                                    |                                                                                     |
| <b>Date: 6<sup>th</sup> Feb 2023</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                | <b>Timings: 9:30 am to 10:00 am</b>                                                                |                                                                                     |
| Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Session 1<br>(10:00 am to 12:00 pm)                                                            |                                                                                                    | Session 2<br>(2:00 pm to 4:00 pm)                                                   |
| <b>06.02.2023</b><br>Monday                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Exploratory Data Analysis<br>(Hands-On)                                                        | Mr. Vivek Chaudhary<br>Data Science & ML, Research<br>Fellow, Alma Better, Bengaluru,              | Optimization in Deep<br>Learning<br>(Concepts)                                      |
| <b>07.02.2023</b><br>Tuesday                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Self-Organizing Maps<br>(Hands-On)                                                             | Dr. Abhijeet Joshi &<br>Mr. Deepak Nagar<br>Technology Professional,<br>Siemens, Bengaluru         | Applied Statistics<br>(Hands-On)                                                    |
| <b>08.02.2023</b><br>Wednesday                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Mathematical foundations<br>of PCA and ICA with<br>applications to Data<br>Science. (Hands-On) | Dr. Nithin Nagaraj<br>Associate Professor,<br>National Institute of Advanced<br>Studies, Bengaluru | Data Modelling<br>(Hands-On)                                                        |
| <b>09.02.2023</b><br>Thursday                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Conformal Prediction<br>(Concepts)                                                             | Dr. Soma Dhavala<br>Director - ML, Wadhvani<br>Institute for AI, Bengaluru                         | Outlier Mining<br>(With Case Study)                                                 |
| <b>10.02.2023</b><br>Friday                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Seeing through the black<br>box: feature selection and<br>model interpretation<br>(Hands-On)   | Dr. Gowri Srinivasa<br>Professor, PES University,<br>Bengaluru.                                    | Data analytics in<br>Healthcare to predict<br>Cardiovascular Diseases<br>(Concepts) |
| <b>THANK YOU</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                |                                                                                                    |                                                                                     |

The FDP concluded with a Valedictory address and feedback was taken from participants for each session as well as overall feedback on the FDP was taken. E-certificates were issued on completion of Quiz

## Snapshots





## 4. Feedback

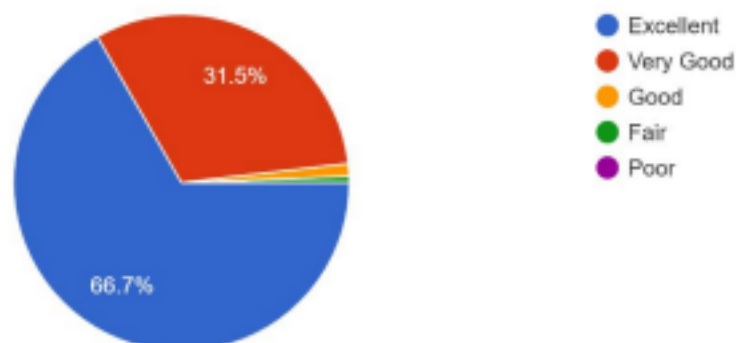
Feedback Link:

[https://docs.google.com/forms/d/e/1FAIpQLSc7IeVlevlp6YsCBTdZwO7OMFk6Oqv0z2wG58XSFiw1glsY4w/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSc7IeVlevlp6YsCBTdZwO7OMFk6Oqv0z2wG58XSFiw1glsY4w/viewform?usp=sf_link)

Number of Participants Responded: 165

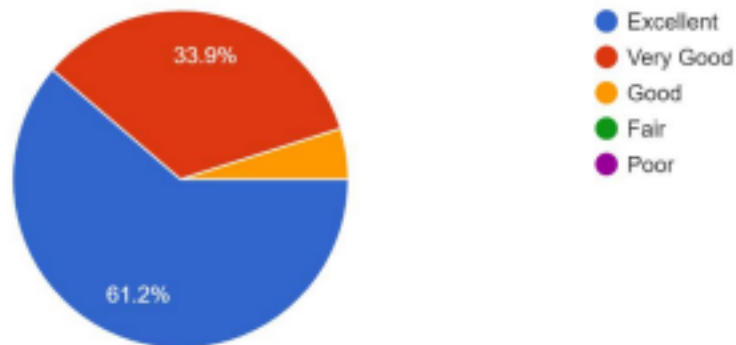
1. Overall how would you rate the FDP?

165 responses



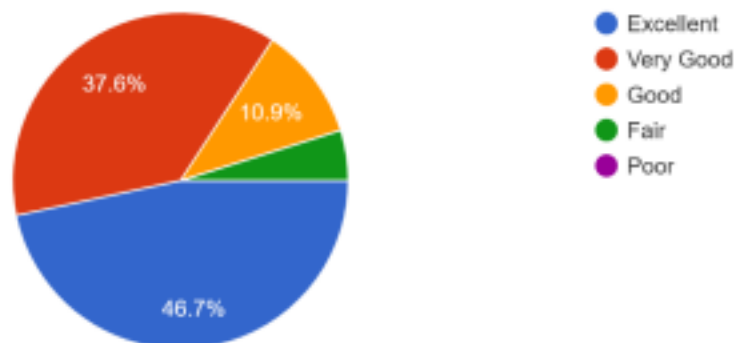
C. How would you rate the overall skills of the trainers?

165 responses



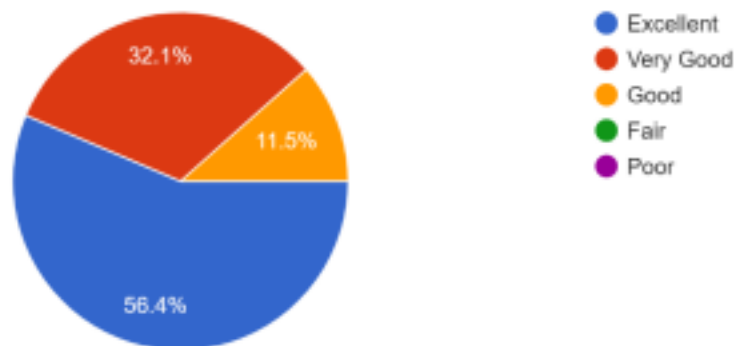
D. Were you able to work on tools discussed in the FDP?

165 responses



E. How would you rate the resource materials provided?

165 responses



**5.Attendence Sheet with signature: Excel Sheet Attached**

**6. Submit hardcopy of Renumeration details/forms:**