

# Dayananda Sagar University

## School of Engineering

Kudlu Gate, Hosur Road, Bengaluru 560068

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## Value Added Course on Data Visualization Using Rapid Miner Studio

### • INTRODUCTION

Department of the Computer Science & Engineering organized 30 hours Value Added Course on “**Data Visualization using Rapid Miner Studio**” for the 6<sup>th</sup> Semester students of Department of CSE, SOE, DSU from 24<sup>th</sup> February to 26<sup>th</sup> March 2023. Venue was B-Block, Room No-S242. Value Added course was Organized by Dr. Basavaraj N Hiremath, Professor, Dept. of CSE, SOE. The Resource Persons of the course are:

1. Dr. Basavaraj N Hiremath. Professor, CSE, SOE.
2. Dr. Savitha Hiremath, Associate Professor, CSE, SOE.
3. Prof. Veena M, Assistant Professor, CSE, SOE.

The course was Inaugurated on 24<sup>th</sup> February 2023. Dr. Girisha G S, Chairperson, Dept. of CSE, SOE conveyed the importance of the “**Data Visualization using Rapid Miner Studio**” to the students. Organizer of the course, Dr. Basavaraj N Hiremath briefed students about the schedule and the contents that will be covered in the Value Added Course.

### SCHEDULE

The Scheduled of the course is as follows:

Date	Timings	Topics Covered
24/2/23	2:45 to 3:00 pm	Inauguration
	3:00 to 4:45 pm	Basics of Data Analytics and Introduction to ETL
3/3/23	2:45 to 4:45 pm	Data Analytics and Preprocessing, Introduction to Rapid miner Tool, followed with Registration

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10/3/23	2:45 to 4:45 pm	Introduction to Machine Learning and Data Science
11/3/23	10:00 to 1:00 pm	CRISP-DM, Use Cases for Machine Learning(Hands-on)
	2:45 to 4:45 pm	Walkthrough on Datasets a) Titanic b) Loyalty Model Dataset
17/3/23	2:45 to 4:45 pm	Modeling on Visualization: Market Basket Analysis
24/3/23	2:45 to 4:45 pm	End to End Connectivity of Data Flow on the Rapid Miner Canvas to understand Input Output task
25/3/23	10:00 to 1:00 pm	Case Studies as mentioned in Rapid Miner Portal
	2:45 to 4:45 pm	Walkthrough on Learning Videos to attain professional certification
11/4/23	2:45 to 4:45 pm	Feedback and Valedictory

On day one, Resource person of the session discussed on how data visualization fits into this ecosystem, specifically using the powerful tool Rapid Miner. **Data Visualization** is the art of representing data visually through graphs, charts, and interactive dashboards. It is a crucial step in the Data Science process as it enables us to explore and communicate complex information effectively. Visualization is a powerful tool for understanding patterns, trends, and outliers in data, and it enhances the decision-making process by presenting information in a visually appealing and accessible manner.

Session 2 focused on CRISP-DM, Use Cases for Machine Learning(Hands-on). CRISP-DM stands for Cross-Industry Standard Process for Data Mining, and it provides a structured approach to tackle complex data problems. It consists of six stages, which was briefly overviewed before moving on to the hands-on portion of the session.

Session 3 mainly focused on Walkthrough on Datasets a) Titanic b) Loyalty Model Dataset. Session 4 , Students used Market Basket Analysis for Modeling on Visualization. Now-a-days, we are going to delve into the exciting world of Market Basket

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In session Analysis, where we will combine data visualization and modeling techniques to gain valuable insights from customer purchase data. Market Basket Analysis is a powerful method used by retailers and businesses to understand customer behavior and optimize sales strategies.

Session 5 mainly focused on End to End Connectivity of Data Flow on the Rapid Miner Canvas to understand Input Output task.

In session 6, students worked on the Case Studies as mentioned in Rapid Miner Portal.

In session 7, students are guided on Walkthrough on Learning Videos to attain professional certification.

## 4. ATTENDEES

The Value added course was attended by around 58 students from CSE department. Resource persons of the course guided the students throughout the workshop.: Students appreciated the value-added course on “**Data Visualization using Rapid Miner Studio**” that allows them to apply data visualization techniques using Rapid Miner to real-world datasets. Hands-on projects and exercises that simulate real scenarios enhance the learning experience. Students also appreciated as courses that are relevant.

Around 38 students successfully passed the examination for “Applications & Use Cases Professional Certification” and got the Certificates.

## 5.CLOSING

Valedictory function of the course happened on 11/04/23. The As an organizer, Dr. Basavaraj N Hiremath thanked the management of DSI, Dean Dr. Uday Kumar Reddy K R, Chairman Dr. Girisha G S, resource persons and students for all his support given for the conduction of the course. Chairman Dr. Girisha G S congratulated organizer, resource persons and students for making the course a grant successes.

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### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### Sample Certificate:



#### Sample certificate given by the CSE Department:





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#### Sample Photos:



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**DAYANANDA SAGAR UNIVERSITY**  
**School Of Engineering**  
**Department of**  
**Computer Science and Engineering**



For 6th sem CSE  
registered  
students in  
batches.

**Cordially invites you to Value added course on**  
**DATA VISUALIZATION USING RAPIDMINER STUDIO**

**Starts from 24th Feb to 26th March 2023**

#### Course Objectives

To work on data quality analysis  
by Data visualization.  
To Understand Data  
aggregation and preparation.  
Working on basics of ETL  
processes on RapidMiner studio.

#### Course Outcomes

- To apply various ETL techniques.
- To summate data analysis.
- Analyze the use of visuals to infer data.

#### Conveners

- Dr. Udaya Kumar Reddy K.R  
Dean, SOE
- Dr. Girisha G.S  
Chairperson CSE , SOE

#### Organizer

Dr. BasavaraJ N Hiremath  
Professor, CSE,SOE

#### Resource Persons

Dr. BasavaraJ N Hiremath  
Professor, CSE,SOE  
Dr. Savitha Hiremath  
Associate Prof, CSE, SOE  
Prof. Veena M  
Assistant Prof. CSE, SOE

#### Note:

- Altair software RapidMiner tool is used for the practice (free).
- At the end of the course, students should register for the certification exam through Altair portal.
- All the attendees will be issued a participation certificate based on the assessment.

#### Venue & Timing

8-Block  
Room no - 5242  
1:45 PM to 4:45 PM



**We are happy to inform you all that we have successfully completed 30 hours Value added course on "Data Visualization using Rapid Miner". The students are in progress for certification"Altair" Certificate. The organizing committee would like to thank DSI Management, Vice chancellor Dr. KNB Murthy, Pro VC Prof. R Janardhan, Pro VC Dr. Amit R. Bhatt, Registrar Dr. Puttamadappa C, Dean SoE, Dr. Udaya Kumar Reddy K R, Dean Research Dr. M. K. Bhanga, who has support us to conduct the course. We would like to thank Chairman CSE, Dr. Girisha G S for giving us opportunity, guidance and support to conduct the course.**