

Dayananda Sagar University
School of Engineering
Kudlu Gate, Hosur Road, Bengaluru 560068

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 6th Semester students of Department of CSE, SOE, DSU from 24th February to 26th 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 24th 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

Dayananda Sagar University

School of Engineering

Kudlu Gate, Hosur Road, Bengaluru 560068

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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

Dayananda Sagar University

School of Engineering

Kudlu Gate, Hosur Road, Bengaluru 560068

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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 great successes.



Dayananda Sagar University

School of Engineering

Kudlu Gate, Hosur Road, Bengaluru 560068

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sample Certificate:



Sample certificate given by the CSE Department:





Dayananda Sagar University

School of Engineering

Kudlu Gate, Hosur Road, Bengaluru 560068

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sample Photos:





Dayananda Sagar University

School of Engineering

Kudlu Gate, Hosur Road, Bengaluru 560068

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



Dayananda Sagar
University

For 6th sem CSE
registered
students in
batches.

DAYANANDA SAGAR UNIVERSITY

School Of Engineering

**Department of
Computer Science and Engineering**



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. Srinivas Hiremath
Associate Prof, CSE, SOE
Prof. Veena M
Assistant Prof, CSE, SOE

Note:

- Altair software RapidMiner tool is used for the
practise (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

9-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. K.N.B 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.