Marwadi University
Marwadi Chandarana Group

MARWADI EDUCATION FOUNDATION'S GROUP OF INSTITUTIONS
GAURIDAD CAMPUS, RAJKOT
DEPARTMENT OF INFORMATION AND COMMUNICATION TECHNOLOGY

# Introductory Session on Data Science Club for Degree Semester 1

# Date: 28-09-2024
# Event Report

**INTRODUCTORY SESSION ON DATA SCIENCE CLUB** was conducted by the Data Science Club at MA110 on 15th October 2024. The event aimed to introduce freshers from Degree Semester 1 to the exciting world of Data Science, Data Visualization , Artificial Intelligence (AI) , Machine Learning (ML), Deep Learning (DL), and Data Analytics, while also offering interactive activities to help students better understand these key concepts. The flow of the event was as follows:

## 1. About DS Club:

The session started with an introduction to the Data Science Club (DS Club). Developed by students from the ICT department under the guidance of Professor Nishith Kotak, the club's mission is to explore the vastness of Data Science and Data Visualization. The club focuses on helping its members understand how data can be harnessed for deriving meaningful insights and making informed decisions through the correct analysis of data.

## 2. Introduction to Data Science:

The term "Data Science" was introduced, highlighting how it integrates multiple disciplines such as statistics, artificial intelligence, machine learning, and programming to derive valuable insights from data. Attendees learned that Data Science helps organizations optimize their operations, understand trends, and make strategic decisions based on data-driven analysis.

## 3. Overview of Machine Learning (ML) & Artificial Intelligence (AI):

Participants were introduced to the concepts of Machine Learning (ML) and Artificial Intelligence (AI). The following key points were covered:

- Machine Learning (ML): A subset of artificial intelligence that focuses on building systems that learn from data to make decisions and predictions

without explicit programming. ML algorithms improve their performance over time as they are exposed to more data.

- Artificial Intelligence (AI): AI refers to the broader concept of creating machines that can perform tasks that typically require human intelligence. This includes tasks like speech recognition, decision-making, problem-solving, and language understanding. AI encompasses various techniques, including ML, natural language processing (NLP), and robotics, and aims to create systems that can simulate human behaviour intelligently.

**4. Understanding Data Analytics:**

The session provided an overview of Data Analytics, explaining how it involves processing and analyzing raw data to uncover trends, patterns, and insights. Students learned about the various tools and techniques used in data analytics to help organizations in decision-making processes.

**5. Interactive Activity – Google Trends:**

To make the session more engaging, an interactive activity involving Google Trends was conducted. Google Trends is a tool that provides insights into what people are searching for online. Participants were divided into small groups and asked to explore different topics using Google Trends, compare search trends over time, and interpret the data. This exercise helped them understand how real-time data can be visualized and analyzed for practical applications.

**6. Google Labs: Introduction to IMAGEFX**

During the session, participants were introduced to **IMAGEFX**, a powerful tool developed by **Google Labs** that allows users to experiment with advanced image processing and AI-driven features. **IMAGEFX** is designed to showcase how machine learning and artificial intelligence can be applied to manipulate, enhance, and analyze images in innovative ways.

The session highlighted the following aspects of **IMAGEFX**:

- **Image Manipulation**: Participants learned how AI models within IMAGEFX can perform tasks like enhancing image resolution, applying

artistic filters, and even generating entirely new visuals based on input images.

- **Object Recognition and Detection**: The tool was demonstrated for its ability to detect and label objects within images, showcasing the power of AI in visual data analysis.
- **Real-Time Image Editing**: IMAGEFX allows users to apply real-time edits to images, such as changing the background or style transfer, demonstrating the potential of AI to enhance creative workflows.
- **Practical Applications**: The session covered how technologies like IMAGEFX could be used in industries such as media, photography, healthcare (for medical imaging), and e-commerce (for product visualization).

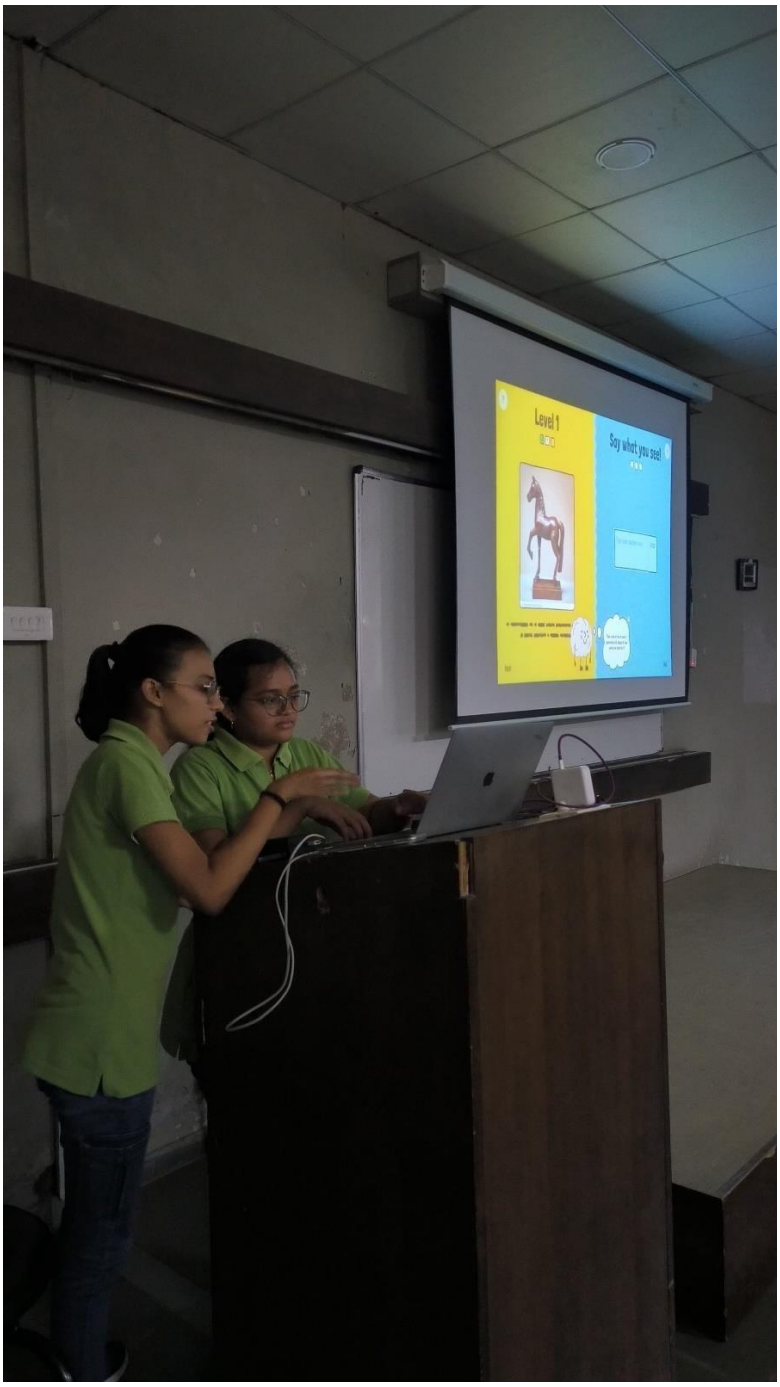
**7. Q&A Session:**

Following the interactive activity, a question-and-answer session was held to address any doubts or queries that the participants had regarding Data Science, ML, DL, and Data Analytics. The panel of club members and mentors provided insights and clarifications to deepen the students' understanding.

**List of Participants:**

ICT degree Sem 1 EK1

# PHOTOS:


Level 1
Say what you see!

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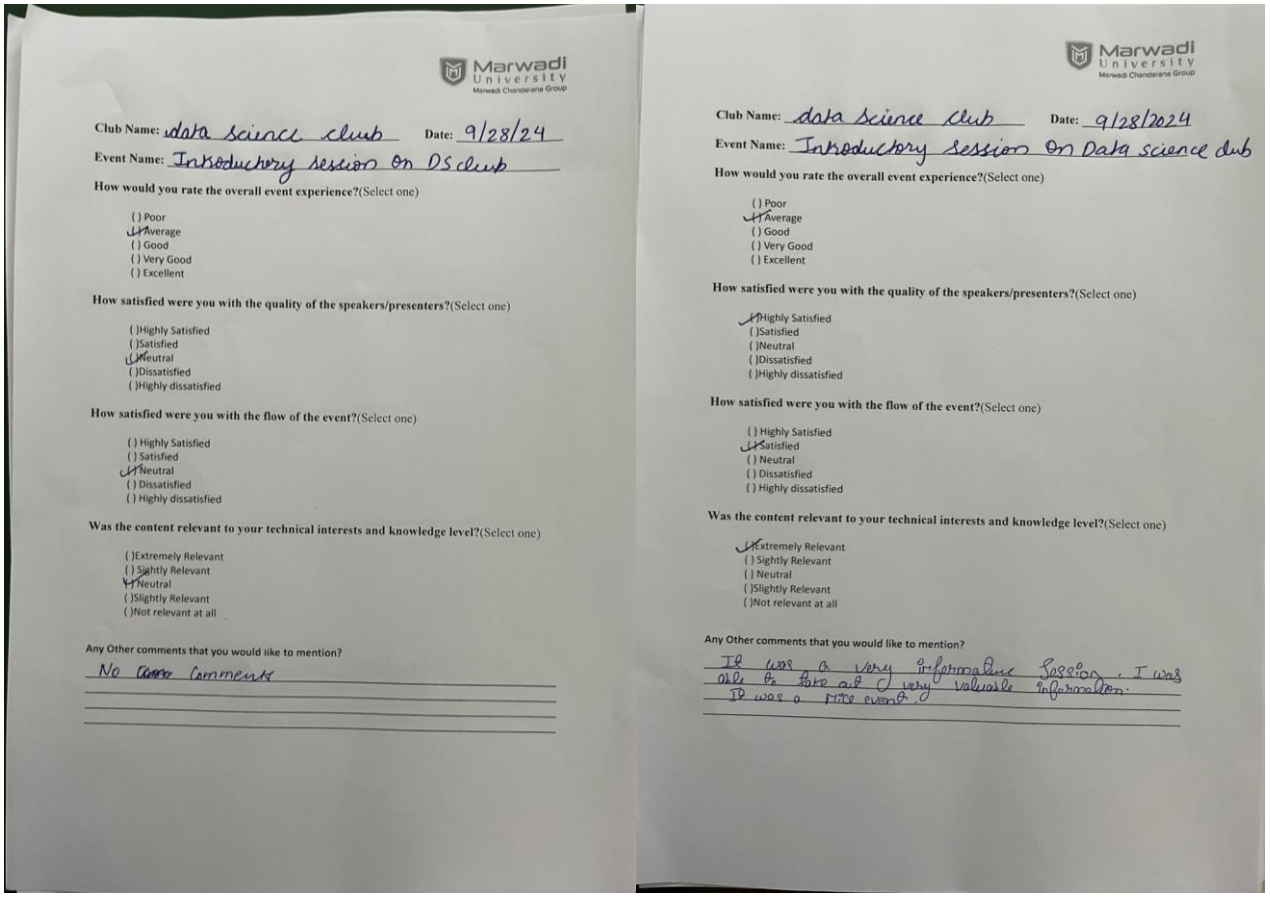
**List of Participants:**

| GR NO | EN Roll No | Participate Name |
|---|---|---|
| 132253 | 92400133055 | RUHAAN HASIBKHAN PATHAN |
| 131716 | 92400133156 | DIYA RAJESH KALARIA |
| 133016 | 92400133184 | CHANDANI JAGDISHBHAI PATEL |
| 127497 | 92400133060 | SHREYA ASHWINBHAI VACHHANI |
| 129601 | 92400133109 | PRINCE HARESHBHAI VAGHASIYA |
| 131119 | 92400133161 | DIVA CHINTAN PAREKH |
| 125821 | 92400133021 | KISHANKUMAR DHIRAJLAL KALAVADIYA |
| 130232 | 92400133131 | FARHAN SABIRBHAI KALADIYA |
| 128207 | 92400133075 | CHIRAGSINH CHETANSINH JADEJA |
| 130505 | 92400133141 | PRIYANK VINUBHAI VEKARIYA |
| 125762 | 92400133030 | PRAJVAL ASHOKGIRI GOSAI |
| 132074 | 92400133120 | IRA ANKURBHAI BHOGAYATA |
| 127171 | 92400133048 | BHAVARTH VINODBHAI BHAMBHANI |
| 131334 | 92400133104 | AVANI CHAMPAKBHAI KAVATHIYA |
| 129472 | 92400133106 | DHRUVIN DIPAKBHAI BHALARA |
| 133168 | 92400133189 | OM BHARATBHAI LATHIGARA |
| 131653 | 92400133150 | KENIL AMITBHAI PAREKH |
| 126867 | 92400133041 | SLOCK RAVIKUMAR AHUJA |
| 130005 | 92400133125 | MANKUMAR ALPESHBHAI BHALODIYA |
| 132261 | 92400133090 | PREM PRAKASH JOSHI |
| 126987 | 92400133044 | DEV RADIA |
| 128378 | 92400133080 | SHUBH NAVNEETBHAI VACHHANI |
| 130885 | 92400133157 | OM DHOLARIYA |
| 130870 | 92400133154 | AKSHAT PANKAJ SHAH |
| 126194 | 92400133024 | JENIL DHARMESHBHAI DOBARIYA |
| 131574 | 92400133169 | RISHI SAMPAT |
| 126663 | 92400133035 | JADEJA RAJDEEPSINH |
| 129602 | 92400133108 | KRISH ASHWINBHAI SONDAGAR |
| 128779 | 92400133089 | DARSHIT SATISHBHAI KACHA |
| 128368 | 92400133079 | YUG RAJESH MAKWANA |
| 130253 | 92400133132 | DHAVAL SURESHBHAI BAHOPIYA |
| 133015 | 92400133183 | DHRUVI GOVINDBHAI BHUDIYA |
| 127463 | 92400133058 | AUM DAVE |
| 127647 | 92400133061 | DHYEYKUMAR MANOJBHAI MARVANIYA |
| 127392 | 92400133054 | DHARMIK KAMLESHBHAI GODALKA |
| 128386 | 92400133081 | MANAV NILESHBHAI CHOTAI |
| 125714 | 92400133020 | SALONI KARTIKBHAI RAMAVAT |
| 126658 | 92400133034 | VINEESHA DEEPAKBHAI MADNANI |
| 126288 | 92400133026 | RUSHBH ASHOKBHAI SUVAGIYA |
| 129800 | 92400133113 | VISHANT ANILBHAI CHHANIYARA |
| 133264 | 92400133191 | TAKSH MANSUKHBHAI AMRUTIYA |
| 131573 | 92400133170 | NEMIL CHHAGANI |

| | | |
|---|---|---|
| 128757 | 92400133088 | MITKUMAR MANISHBHAI CHODVADIYA |
| 130503 | 92400133140 | VRUSHANK BHAVESHBHAI RAMANI |
| 126489 | 92400133029 | DHIMANT SUNILBHAI BHALSOD |
| 132337 | 92400133015 | MIHIR KISHORBHAI DHEDHI |

**Feedback Form:**



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Club Name: data science club Date: 9/28/24

Event Name: Introductory session On DS club

**How would you rate the overall event experience?**(Select one)

( ) Poor
(✓) Average
( ) Good
( ) Very Good
( ) Excellent

**How satisfied were you with the quality of the speakers/presenters?**(Select one)

( )Highly Satisfied
( )Satisfied
(✓) Neutral
( )Dissatisfied
( )Highly dissatisfied

**How satisfied were you with the flow of the event?**(Select one)

( ) Highly Satisfied
( ) Satisfied
(✓) Neutral
( ) Dissatisfied
( ) Highly dissatisfied

**Was the content relevant to your technical interests and knowledge level?**(Select one)

( )Extremely Relevant
( ) Sightly Relevant
(✓) Neutral
( )Slightly Relevant
( )Not relevant at all

**Any Other comments that you would like to mention?**

No comments

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( ) Sightly Relevant
( ) Neutral
( )Slightly Relevant
( )Not relevant at all

**Any Other comments that you would like to mention?**

It was a very Informative Session. I was able to take all very valuable information.
It was a nice event.