

Report of “Roleplay”

Date: 18.04.2026

Subject: Data Science

“Roleplay” was conducted for T.E. students on 18.04.2026 in the S39 classroom. This activity was carried out in groups assigned by the class teacher.

Role play activities help students understand concepts in an interactive and practical manner. It encourages teamwork, communication, analytical thinking, and problem-solving abilities. Through roleplay, students can better understand real-world applications of Data Science and how data-driven decisions are made in various fields.

Benefits of Role Playing

Role playing can be effectively used in the classroom to:

- Improve communication and presentation skills
- Encourage teamwork and active participation
- Provide practical understanding of concepts
- Develop analytical and critical thinking abilities
- Enhance confidence in problem-solving and decision-making



In the “Data Science Journey” roleplay, students demonstrated the complete process of Data Science through different characters and activities.

The activity began with the **Data Collection Team**, where students acted as survey collectors, social media analysts, and business representatives gathering data from multiple sources. They explained how data can be collected in structured and unstructured formats from websites, applications, sensors, and databases.

Next, the **Data Cleaning Team** demonstrated the importance of removing duplicate values, handling missing data, and correcting errors to make the dataset accurate and reliable. Students showed how raw data is often incomplete and needs preprocessing before analysis.

After this, the **Data Analysis Team** performed the role of data analysts who studied the cleaned data to identify patterns, trends, and relationships. They explained how graphs, charts, and statistical methods help organizations understand customer behavior and business performance.

Then, the **Machine Learning Team** acted as AI engineers who trained models using prepared datasets. They demonstrated how prediction systems work in applications such as weather forecasting, recommendation systems, healthcare analysis, and fraud detection.

Finally, the **Decision-Making Team** represented company managers who used the analyzed results and predictions to make important business decisions. They explained how Data Science supports organizations in improving efficiency, increasing profits, and solving real-world problems.

At the end of the roleplay, students understood that Data Science is a step-by-step process involving data collection, preprocessing, analysis, visualization, and intelligent decision-making. The activity successfully helped students gain practical knowledge of Data Science concepts in an engaging and interactive way.

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Subject Teacher