| **Session Plan (What is Data Science - Module1) - (Online)** | | | | |
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| **Topics** | **Objectives** | **Methodology**  **& ROPES model** | **Description** | **Duration** |
| **Instructor Introduction & Pre-assessment** | Instructors introduce themselves and get to know the students. Assess learners' initial knowledge. | Introduction and Pre-assessment | 1. The instructor introduces themselves, asks students about their backgrounds, and sends out the pre-assessment to gauge knowledge levels. | 20 mins |
| **Introduction** | Recap previous topics and introduce session objectives | PPT Introduction | Instructor introduces the topic of "What is Data Science" and highlights objectives. | 10 mins |
| **What is Data Science?** | Define and explore the essence of data science | PPT Presentation Slides 4−5 Slides | Instructor defines data science, focusing on its continuous process of gaining insights from data. | 15 mins |
| **Fundamentals of Data Science** | Introduce the foundational concepts of data science | PPT Presentation Slides 6−8 Slides | Instructor explains the importance of data analysis and tools used in data science. | 20 mins |
| **Activity** | Explore real-life applications of data science | Group discussion | Learners discuss applications like chatbots, recommendation systems, etc., in small groups. | 15 mins |
| **The Many Paths to Data Science** | Introduce career paths and personal journeys | PPT Presentation Slides 10−12 Slides | Instructor discusses how professionals enter data science, referencing diverse backgrounds and fields. | 10 mins |
| **Advice for New Data Scientists** | **Provide advice for beginners in data science** | **PPT Presentation Slides 13−15 Slides** | **Instructor shares career strategies, such as building analytical skills and mastering tools.** | 10 mins |
| **Break** |  |  |  | 20 mins |
| **Data Science Process** | Summarize the key stages of data science | PPT Presentation Slides 16−17 Slides | Instructor explains the process from problem clarification to data visualization. | 15 mins |
| **Skills for Data Scientists** | Identify the skills needed for success | PPT Presentation Slides22 −23 Slides | Instructor outlines skills like programming, data visualization, and domain knowledge. | 20 mins |
| **Activity** | Q&A to reinforce learning | Interactive Q&A Slide 32 | Instructor engages participants by asking questions about the content to assess knowledge. | 15 mins |
| **Closure** | Wrap up the session and summarize key takeaways | Activity | Instructor summarizes key concepts using interactive tools. | 10 mins |
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