C1_W1 Graded Quiz

1/ A modern data ecosystem includes a network of continually evolving entities. It includes:

○ Data providers, databases, and programming languages

○ Data sources, databases, and programming languages

◉ Data sources, enterprise data repository, business stakeholders, and tools, applications, and infrastructure to manage data → These are the key entities of a modern data ecosystem.

○ Social media sources, data repositories, and APIs

2/ Data Analysts work within the data ecosystem to:

○ Develop and maintain data architectures

○ Build Machine Learning or Deep Learning models

◉ Gather, clean, mine, and analyze data for deriving insights → The role of a Data Analyst in a data ecosystem is to gather, clean, mine, and analyze data to derive insights.

○ Provide business intelligence solutions by monitoring data on different business functions

3/ When we analyze data in order to understand why an event took place, which of the four types of data analytics are we performing?

○ Predictive Analysis

◉ Diagnostic Analysis → Diagnostic Analysis helps us understand why an event took place—the cause of an outcome.

○ Prescriptive Analysis

○ Descriptive Analysis

4/ The first step in the data analysis process is to gain an in-depth understanding of the problem and the desired outcome. What are you seeking answers to at this stage of the data analysis process?

○ What will be measured and how it will be measured

○ The best tools for sourcing data

○ The data you need

◉ Where you are and where you need to be → As a first step in the Data Analysis process, you are seeking answers to "where you are", that is, what is the problem that needs to be

5/ From the provided list, select the three emerging technologies that are shaping today's data ecosystem.

⦿ Cloud Computing, Machine Learning, and Big Data → Emerging technologies such as Cloud Computing, Machine Learning, and Big Data are shaping today's data ecosystem and its possibilities.

○ Machine Language, Cloud Computing, and Internet of Things

○ Cloud Computing, Internet of Things, and Dashboarding

○ Big Data, Internet of Things, and Dashboarding

Practice Quiz (100%)

1/ Which emerging technology has made it possible for every enterprise to have access to limitless storage and high-performance computing?

⦿ Cloud computing → Cloud technologies have made it possible for every enterprise, regardless of its size, to have access to limitless storage and high-performance computing at nominal costs.

○ Big Data

○ Internet of Things

○ Machine learning

2/ Which of the data roles is responsible for extracting, integrating, and organizing data into data repositories?

○ Data Scientist

○ Business Intelligence Analyst

○ Data Analyst

⦿ Data Engineer → Data Engineers are responsible for extracting, integrating, and organizing data into data repositories.

3/ When you analyze historical data to predict future outcomes what type of Data Analytics are you performing?

⦿ Predictive Analytics → Predictive Analytics is the analysis of historical data to predict future outcomes.

○ Descriptive Analytics

○ Diagnostic Analytics

○ Prescriptive Analytics