# Under the patronage of His Excellency the Minister of Education

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## and the directives of

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## Second Preparatory Grade – Weekly Evaluation and Homework – Week (7 )

# Weekly Evaluation

## First Test

**Put (√) in front of the correct statement or (x) in front of the incorrect statement :**

1. **Big data increases the accuracy and effectiveness of AI models by training them on a wide range of scenarios and reducing the problem of overfitting. ( )**
2. **Natural Language Processing (NLP) models like GPT do not require massive text datasets to learn, understand, and generate human language. ( )**

**Answer the following questions:-**

1- **How do big data contribute to helping artificial intelligence carry out predictive analyses of the future?**

2- **What is the benefit of integrating artificial intelligence technologies with big data?**

## Second Test

**Put (√) in front of the correct statement or (x) in front of the incorrect statement:**

1. **Computer vision applications, such as facial recognition, rely on massive datasets of images and videos to train their models . ( )**
2. **Real-time big data streams allow AI models to continuously learn and adapt to new data. ( )**

**Answer the following questions:-**

1. **What is the importance of real-time big data flow for AI models?**
2. **How are large sets of images and videos used in training computer vision technologies?**



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## Third Test

**Put (√) in front of the correct statement or (x) in front of the incorrect statement :**

1. **Big data helps enable AI to analyze historical data to identify patterns and trends to make accurate predictions about future events (such as predictive analytics). ( )**
2. **AI is just a set of theoretical algorithms incapable of learning or providing real value, even with the availability of big data. ( )**

**Answer the following questions:-**

1. **How do big data contribute to improving the accuracy of AI models and reducing the problem of overfitting?**
2. **What is the importance of large textual datasets for natural language processing (NLP) models such as GPT?**

## Class Evaluation

**Search online how big data helps in discovering hidden insights and patterns.**

## Homework

**Choose the appropriate answer to complete each of the following statements:**

1- **Which of the following is an example of an advanced AI application that relies on massive sets of images and videos to train its models?**

a- Natural Language Processing (NLP) b- Computer Vision

c- Big Data Aggregation d- Task Automation

2- **Big data helps machine learning algorithms automate tasks in fields such as……**

a- Customer Service b- Logistics

c- Financial Services d- All of the above

**Answer the following questions:-**

1- **How do big data help in automating tasks in different fields?**

2- **Why do computer vision applications need huge amounts of visual data (images and videos)?**



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