

Preci's Paper:

Scientific Progress reduced

Labour:

The advancement in technology has reduced the arduous work required to provide necessities for living. Evident during war. Despite majority of the workforce was indulged in war operations, civilians at the allied side were in good health. Moreover, economy covered this fact. Consequently, war displayed people can live a decent life with minimum labor due to scientific progress. Similar work ethics could have continued after war. Unfortunately, old system of long working hours was reimposed. Therefore, unemployed remained poor and the fact was established industry sets a person's worth.

Word Count:

- Total Words in Passage:
262

- Total words required:
88

- Total words in preci:
90.

COMPREHENSION:

QUESTION #1:

What differentiates AI systems from passive machines?

ANSWER #1:

AI systems are designed to function in real-time and make decisions as compared to passive machines who are mechanical and produce only set responses. The AI is trained on a data set, analyze the material and produce sophisticated decisions.

QUESTION #2:

How does machine learning contribute to Artificial Intelligence?

ANSWER #2:

Machine learning has a major role to play in artificial intelligence. Machine learning searches for similar pattern and foundational trends in a data. Thus, giving the useful data that can be further used by AI to analyse and predict in real-time.

QUESTION 3:-

Explain how AI is already impacting the society, using at least two examples from the text.

ANSWER #3:

AI enhances human capabilities and has enormous impacts on society. In the field of health care it assists doctors and surgeons in diagnosing a certain disease for e.g. during surgeries, robotic surgeries take place now. Moreover, in criminal justice system, AI helps detection and investigation processes to detect true and false. It is not emotional and works on realistic approach. In software houses, it has proved to be a huge help to developers like cursor. AI.

QUESTION #4:

How do fully autonomous vehicles differ from semi-autonomous vehicles in their use of AI?

ANSWER #4:

The semi-autonomous vehicles as the name suggests involve human drivers and AI's predicability to guide and inform the

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drivers regarding any hurdle ahead. The use of advanced algorithms, sensors and machinery help ~~to take~~ vehicles to share experience with similar semi-autonomous vehicles. Thus, guiding the driver to avoid accidents or waiting for long. Whereas the advanced systems or fully autonomous function and navigate without human involvement. Also known as self-driving vehicles.

TRANSLATION :

Pakistan is aware of the fact that in order to maintain current strategic and development benefits it needs to implement successful operations and robust policies against terrorism. It was clearly evident last week when military emphasised on unity in all spheres to tackle all terrorist groups. According to the national officers, currently, Pakistan is busy in investigating the terrorist activities taking place at the borders with Afghanistan in Balochistan and N.W.F.P. However, the thing that puts Pakistan under hot waters and India also continuously criticizes is the long-term presence of terrorist groups like Lashkar-e-Taiba and Jaish-e-Muhammad. These were

Teacher's Signature _____

MIGHTY PAPER PRODUCT

once settled in Kashmir by India.

✓ Q. 2. Write a précis of the following passage and also suggest a suitable title: (20)

Modern technic has made it possible to diminish enormously the amount of labor necessary to produce the necessities of life for everyone. This was made obvious during the War. At that time all the men in the armed forces, all the men and women engaged in the production of munitions, all the men and women engaged in spying, war propaganda, or government offices connected with the War were withdrawn from productive occupations. In spite of this, the general level of physical well-being among wage-earners on the side of the Allies was higher than before or since. The significance of this fact was concealed by finance; borrowing made it appear as if the future was nourishing the present. But that, of course, would have been impossible; a man cannot eat a loaf of bread that does not yet exist. The War showed conclusively that by the scientific organization of production it is possible to keep modern populations in fair comfort on a small part of the working capacity of the modern world. If at the end of the War the scientific organization which had been created in order to liberate men for fighting and munition work had been preserved, and the hours of work had been cut down to four, all would have been well. Instead of that, the old chaos was restored, those whose work was demanded were made to work long hours, and the rest were left to starve as unemployed. Why? Because work is a duty, and a man should not receive wages in proportion to what he has produced, but in proportion to his virtue as exemplified by his industry.) 262 262 9

✓ Q. 3. Read the following passage carefully and answer the questions that follow: (20)

Artificial intelligence algorithms are designed to make decisions, often using real-time data. They are unlike passive machines that are capable only of mechanical or predetermined responses. Using sensors, digital data, or remote inputs, they combine information from a variety of different sources, analyze the material instantly, and act on the insights derived from those data. With massive improvements in storage systems, processing speeds, and analytic techniques, they are capable of tremendous sophistication in analysis and decision making.

AI generally is undertaken in conjunction with machine learning and data analytics. Machine learning takes data and looks for underlying trends. If it spots something that is relevant for a practical problem, software designers can take that knowledge and use it to analyze specific issues. All that is required are data that are sufficiently robust that algorithms can discern useful patterns. Data can come in the form of digital information, satellite imagery, visual information, text, or unstructured data.

AI systems have the ability to learn and adapt as they make decisions. In the transportation area, for example, semi-autonomous vehicles have tools that let drivers and vehicles know about upcoming congestion, potholes, highway construction, or other possible traffic impediments. Vehicles can take advantage of the experience of other vehicles on the road, without human involvement, and the entire corpus of their achieved "experience" is immediately and fully transferable to other similarly configured vehicles. Their advanced algorithms, sensors, and cameras incorporate experience in current operations, and use dashboards and visual displays to present information in real time so human drivers are able to make sense of ongoing traffic and

vehicular conditions. And in the case of fully autonomous vehicles, advanced systems can completely control the car or truck, and make all the navigational decisions.

AI is not a futuristic vision, but rather something that is here today and being integrated with and deployed into a variety of sectors. This includes fields such as finance, national security, health care, criminal justice, transportation, and smart cities. There are numerous examples where AI already is making an impact on the world and augmenting human capabilities in significant ways.

Questions

1. What differentiates AI systems from passive machines? ✓
2. How does machine learning contribute to artificial intelligence? ✓
3. Explain how AI is already impacting society, using at least two examples from the text. ✓
4. How do fully autonomous vehicles differ from semi-autonomous vehicles in their use of AI?

Q. 4.

(a) Correct only FIVE of the following: (10)

1. In the accident one of my arms was broken and my legs bruised.
2. He not only passed the test but also he got a scholarship. ✓
3. Being a rainy day, the match was postponed.
4. Many people believes that success is the result of hard work, however, it is often a combination of timing, opportunity, and the ability of taking calculated risks. ✓
5. The teacher, along with the students, have gone for a field trip.
6. Scarcely had he reached the station when the train left. ✓
7. The director, who along with several members of the board were absent from the meeting, had not informed anyone about their absence which caused confusion among the staff.
8. The report comprises of ten sections, each addressing a different issue.
9. She is more smarter than her brother in mathematics. ✓
10. No sooner he had entered the room than everyone fell silent.

(b) Re-write the following sentences (Only FIVE) after filling in the blanks appropriately: (5)

1. The professor insisted ___ the importance of academic honesty in research.
- ② He was accused ___ leaking confidential information to the media. ✓
- ③ She is proficient ___ three languages, including Mandarin and French.
- ④ We must comply ___ all the regulations set by the ethics committee.
- ⑤ The novel draws heavily ___ historical events from the early 20th century.
6. The project was delayed ___ unforeseen technical complications.
- ⑦ He was entrusted ___ the responsibility of managing the entire operation.
- ⑧ Her argument rests ___ the assumption that technology alone can solve the problem.

Q.5 Punctuate the following text, where necessary. (5)

پاکستان کو ادراک ہے کہ حالیہ اسٹریٹجک اور سفارتی فوائد کو برقرار رکھنے کے لیے دہشتگردی کے خلاف زیادہ مؤثر اور ترقی یافتہ حکمت عملی کی ضرورت ہے۔ یہ گزشتہ ہفتے اس وقت واضح طور پر سامنے آیا کہ جب فوجی قیادت نے تمام دہشتگرد گروہوں کے خلاف ہر سطح پر فیصلہ کن اور جامع اقدامات کی ضرورت پر زور دیا۔

اس وقت پاکستان افغانستان سے ملحقہ بلوچستان اور خیبر پختونخوا کے سرحدی علاقوں میں انسداد شورش اور انسداد دہشتگردی کی کارروائیوں میں مصروف ہے جبکہ ان کوششوں کا بین الاقوامی کرداروں نے بھی اعتراف کیا ہے۔ تاہم جو چیز خطرے کا باعث بنی ہوئی ہے اور جس چیز کا بھارت مسلسل استحصال کرتا ہے، وہ ہے لشکر طیبہ اور جیش محمد جیسے کالعدم گروہوں کی پاکستان میں طویل عرصے سے موجودگی جو کبھی بھارت کے زیر انتظام کشمیر میں سرگرم تھے۔