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JOB TRENDS

Early education impact

If today's youth had a strong foundation with the right early schooling, there would be less struggle to fit themselves into jobs or become employable, writes Mridula Shridhar, co-founder and director, Kreedo Early Childhood Solutions Click on 'Market Mantra' under 'Job Trends' at www.educationtimes.com

RECONDUCT OF ALL INDIA SAINIK SCHOOLS ENTRANCE EXAMINATION PAPER I FOR ADMISSION TO CLASS VI

- All India Sainik Schools Entrance Examination (for Class-VI, Paper I only) held on 06 Jan 2019 has been cancelled in respect of Sainik School Satara due to certain administrative reasons. The examination will be conducted again on 24 Feb 2019 (Sunday). All candidates who appeared in the All India Sainik School Entrance Examination on 06 Jan 2019 are only
- allowed to appear in the examination on 24 Feb 2019. 2. The admit card for the candidates will be reissued by this school and no candidate will be allowed to use the old admit card for reappearing in the examination. Admit cards can also be downloaded from the website www.sainikschooladmission.in on any date after 08 Feb 2019.
- Any candidate who fails to reappear in this examination on 24 Feb 19 will not be considered for admission to Class VI for academic session 2019-20. Principal, Sainik School Satara



HOW AI AND MACHINE LEARNING HELPS IN UPSKILLING FOR JOBS

Nearly all forms of enterprise software, factory automation, transport and other industries are using AI-based interfaces in their daily operation. Acquire mathematical and programming skills to be a part of changing job scenario, writes Diwakar Chittora

strategy games such as chess or

poker where advance moves

are determined by

natural language

heuristic logic,

here are at least two clear trends that show a demand-supply mismatch in tech jobs in cutting-edge IT fields such as artificial intelligence (AI) and machine learning (ML). According to industry predictions there will be growth in the AI market from US\$ 21.46 billion to US\$190.61 billion between 2018 and 2025. Year on year growth is projected to be an impressive 36.62% during the same period. The second trend is more subtle. Big Indian IT firms in the US are reportedly 'hoarding' employees in these two fields as they foresee a shortage of skilled experts. They also fear a corresponding rise in the cost of hiring employees for tech contracts they have bagged for the future.

HOW ARE AI AND ML BEING USED ININDUSTRY

Unlike the exaggerated robots of the 2001 Steven Spielberg movie of the same name, AI in reality is tamer. It is understood to mean ways of making computers,

HOW CAN YOU ACQUIRE AI AND ML SKILLS By some estimates, AI will create nearly 2.3 million jobs in the coming years. It might also make 1.7 million jobs

obsolete but those would need to be replaced by 0.5 million new jobs. Nearly all forms of enterprise software, factory automation, transport and other industries are increasingly using Al-based interfaces in their daily operation. In fact, by 2030, Al may end up offering US\$15.7 trillion to the global economy. Mathematical and programming skills are central to acquiring competency in this field. However, for seasoned tech professionals, it is also quite important to develop excellent communication skills. An understanding of how business works and the common processes used in day-to-day operations will help you better utilise your core competencies to improve organisational workflows.

processing, virtual assistant technology, computer-controlled robots or programmes to think intelligently, mimicking the way image and speech recognition and humans think. automated robotics. General AI systems A computer programme with AI can solve which can solve any given generic problems for which it is problem are rare. Insurance programmed, but cannot really work on and banking specific issues. They can accommodate organisations regularly new modifications without breaking use AI to monitor fraud. structure. Traditional programmers Marketers use AI every would have to sort, sift and debug time you shop online to thousands of lines of code to make gather your browsing modifications. habits and predict what AI finds applications in

you are most likely to buy. They will then advertise those products through pop-ups and

based on AI, which will change the daily lives of consumers. There is also a difference between AI and machine learning (ML) although a number of articles on the web club them

logos. Self-driving cars, auto-pilot modes

and smart homes using sensors are all

together or use them interchangeably. "ML is the study of computer algorithms that improve automatically through experience," according to Tom Mitchell of Carnegie Mellon University. It is one of the ways we use to achieve AI or something closer.

CORE COMPETENCIES REQUIRED IN AI AND ML

For beginners, programming using C++ is a mandatory requirement. Also necessary is an understanding of how algorithms are created and executed. Typically, knowledge and expertise in Bayesian networks, neural networks, cognitive science theory, engineering, Physics, Robotics, undergraduate Algebra, Calculus, Statistics and probability are essential to hone your talents in ML. Graduates in Computer Science need only supplement their knowledge of Math and computing with a specialisation in AI and ML.

USING RIGHT OPPORTUNITIES

Analysis of professional networking site Linkedin, shows that India is the third best-placed economy after the US and China to crack AI jobs and careers with high penetration of AI awareness. AI is a big part of investments into startups. Among the more exciting opportunities one can expect in 2019, is the rising application of AI in healthcare to diagnose health issues in individuals. Smart infrastructure to help balance rapid growth in urban centres in India is also an option being explored by the government. BTech programmes now mandatorily have AI, IoT, ML and other essential components of emerging technologies. However, constant changes in this dynamic field have made it mandatory for professionals to keep upskilling to remain relevant and job-worthy.

> (The author is CEO and founder, Intellipaat)

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TIMES inter

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coaching institutes

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All the top 15 students

JEE Main exams have

s many as 15 students achieved a perfect score of 100 percentile. The one thing they had in common is that they all claim to have enrolled in coaching centres for additional quidance and study material.

The National Testing Agency (NTA) declared the results of Joint Entrance Examination (JEE) Main 2019 and this was the first time that the computer-based testing (CBT) format was used. As many as six students who scored 100 percentile have been studying in the parallel schools set up by coaching centres. In this school format. students do not attend conventional classes, which allow them sufficient time to prepare for JEE. "The number of applicants in such competitive exams is exponentially high as compared to the seats available. The level of difficulty is intentionally kept high for meritorious students to get filtered. School education is not enough to prepare the students even for the board exams. This explains why students and parents are inclined towards coaching centres," said



PHOTO FOR REPRESENTATION PURPOSE ONLY

Siddarth Pandey, chairman, JEE Advanced. IIT Delhi.

Are coaching centres

Vineet Joshi, director general of NTA blames the peer pressure that makes the students enrol in coaching centres. "Anyone who has understood the concepts of NCERT books of class XII and has enough practice of the three-hour exam format can pass with flying colours in JEE Main," he added.

According to the students' state code of eligibility in NTA records, as many as four applicants from Telangana have achieved the perfect score, but state-wise results are not the real indicators, as

several students have relocated to different cities solely for the purpose of JEE preparations. "We are natives of Andhra Pradesh but my son relocated to Telangana to study at one of the coaching centres. Since last two years, he has been staying in a hostel and attends a parallel school run by the same academy," said father of one of the Telangana toppers (as per state code).

Speaking of parallel schools, Joshi added, "NTA cannot control whether an applicant has attended a formal school as the eligibility criteria for JEE is marks dependent and independent of school attendance."

Anyone who has understood the concepts of NCERT books of class XII and has enough practice of the three-hour exam format can pass JEE Main

- VINEET JOSHI, DIRECTOR, NTA

Education TIMES



BRAINSTRAIN

>> First three correct entries will win a 'pen drive.' Send in your entries only through e-mail with your Name, Address, Email, Tel no. and Profession to sanjay.saxena@timesgroup.com

1. At a party, there are a total of 28 adults. If x ladies join the party, the ratio of the number of ladies to that of gents will change from 3:4 to 5:4. Find x. b) 10 c) 12

2. A village has 10000 people, 68% of the people are males. The total literate population of the village is 6000. There are 1200 more male illiterates than female illiterates. What percent of the female population are

illiterates? a) 48.75 b) 37.5 d) None of these c) 43.75 3. The average speed for an entire journey is 60km/hr without considering the stoppages. When the

stoppages are considered the average speed becomes 48 km/hr. How many minutes per hour on an average were stoppages?

a) 10 minutes b) 12 minutes c) 16 minutes d) 18 minutes 4. In a 100m race, A beats B by 10m and B beats C by 10m. By what distance does A beat C.

b) 20 d) 24 c) 21 5. P is twice as fast as Q and R together. Working together, all three can do a work in 21 days. In how many days Q and R together can do the work.

d) 72 6. The average runs scored by a batsman, who has played 52 innings, increased by one, after an innings of 126. Find the average runs of the batsman before this

innings. b) 73 c) 64 d) 58 7. The sum of the first 13 terms of an arithmetic

progression equals the sum of its first 27 terms. Find the sum of its first 40 terms. a) 0

d) Cannot be determined 8. X says to Y, "I am twice as old as you were when I was as old as you are. The sum of their present ages is 63 years. Find the present age of X.

d) 42 years

Answer key to last week's quiz: 1. (c), 2. (d), 3. (b), 4. (a), 5. (c)

a) 24 years b) 39 years c) 36 years

