

EDUCATION PLUS

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Pankaj Muthe

Do we still need data literacy in the age of AI? Yes, because it provides the foundational knowledge required to navigate data and leverage the capabilities of AI effectively. The World Economic Forum's The Future of Jobs Report 2023 finds that the job market for data-related roles is experiencing significant growth, with more than 75% of companies planning to adopt big data, cloud computing, and AI technologies in the next five years. Digital platforms, apps, e-commerce, and digital trade rank among the technologies most likely to be adopted, as most businesses plan to incorporate them into their operations.

Gap in application

Yet alarmingly, NASSCOM also reports a 51% gap between the demand and supply for AI/ML Big Data Analytics tech talent in India. While there is a keen interest in AI and cybersecurity, students often lack hands-on experience and practical knowledge. Bridging this gap between theoretical understanding and practical application is crucial and educators have to raise awareness of the data literacy skills gap. Here's what they can do to prepare students for careers that will rely on data skills:

Integrating data literacy into the education system requires a multi-faceted approach that goes beyond traditional teaching methods. One effective strategy is to in-

Build a data-literate world

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corporate real-world data into lesson plans, allowing students to work with authentic data sets and gain practical experience in data analysis. For example, students could analyse data on climate change to understand its impact on the environment, or examine data on social media usage to explore trends in online behaviour.

Seamless integration
Another effective approach is to integrate data literacy seamlessly into existing subjects such as Maths, Science, and Social Studies for stu-

dents to grasp the relevance of data analysis across various contexts. For example, in Science, students could analyse data on population growth to understand the impact of human activity on the environment. In medical education, students can leverage patient data to prepare dashboards outlining a patient's case, thereby enhancing their practical understanding of data utilisation in their field. This enables students to derive insights from data and conduct meaningful analyses.

Educational institutions

must forge the right industry partnerships to better align students' learning with employers' needs to benefit both the business community and the education sector. Many companies offer online tools and certification programmes that can help facilitate structured learning pathways for students by offering a range of resources, including free software, and online training to equip students with the necessary skills for roles such as business analyst, data architect, data engineer and so on. The success of such programmes

can be measured not only by the number of students enrolled but also by their subsequent employment rates as well as their qualification and certification outcomes. Additionally, success can be gauged by the extent to which graduates contribute meaningfully to the workforce and how acquiring new-age skills enhances their professional profiles.

These initiatives, implemented across numerous universities and colleges globally including institutions in India such as IITs, IIMs, and National Institutes of Tech-

nology (NITs), underscore the commitment to preparing students for the data-driven world. Through strategic partnerships and robust academic programmes of tech companies, educational institutions can effectively bridge the gap between classroom learning and industry requirements

Constant learning

Educators must recognise that data literacy is not merely a skill that's nice to have but a necessity in preparing students for the future. By analysing student performance data, educators can identify areas for improvement and allocate resources effectively to address gaps in learning and empower students with the skills needed to progress into new roles emerging in an increasingly digital-first, data-driven world.

AI, and now generative AI, is rapidly taking over the way we work, giving more power to data than ever. The Data Literacy: The Upskilling Evolution report confirms that over 58% of employees believe that data literacy is crucial to stay relevant. The ability to work effectively with data from Gen AI cannot be acquired in a day. So what it means to be data literate is constantly changing and evolving with each technology innovation. But by making learning a deliberate and ongoing process, students must be equipped with the data skills needed to build a pipeline of talent for the data-driven world of work we find ourselves in.

The writer is the Senior Academic Programme Manager, Qlik-Asia Pacific

SCHOLARSHIPS

Eternal University's Fully-Funded BCA Programme for Aspiring Young Women

An initiative by Eternal University, along with NavGrurukul and Sri Badrika Ashram.

Eligibility: Open to female Indian nationals between 16 and 28 years domiciled in Punjab, Himachal Pradesh, or neighbouring areas, who have passed Class 12 from a recognised institution. Annual family income should not be more than ₹6 lakhs.

Reward: ₹3.25 lakhs waiver towards tuition fees, accommodation, food, and a laptop for the course duration

Application: Online

Deadline: June 30

www.b4s.in/edge/BCAY1

FAEA Scholarship

An opportunity offered by the Foundation for Academic Excellence and Access (FAEA).

Eligibility: Open to Class 12 or first-year UG students from an ST, SC, OBC or BPL category enrolled in an Arts, Commerce, Science, Medical, Engineering, or other technical or professional programme offered by a recognised Indian institution.

Reward: Tuition fees, maintenance allowance or hostel/mess charges and other allowances

Application: Online

Deadline: June 30

www.b4s.in/edge/FAEA2

The Rhodes Scholarships for India

An initiative of the Rhodes Trust in partnership with the McCall MacBain Foundation (NGO) for full-time studies at the University of Oxford.

Eligibility: Open to Indian citizens between 18 and 27 years as of October 1, 2024 who possess a strong academic background and will complete an undergraduate degree by July 2025.

Applicants must have at least four years of formal education in India within the last 10 years including secondary school or a UG degree.

Reward: Course fees, living stipend, and more

Application: Online

Deadline: August 1

www.b4s.in/edge/TRSI3

Courtesy: Buddy4study

minded individuals through shared hobbies, events, and discussions to network and foster connections.

Establish a daily routine: This involves setting realistic, manageable and achievable goals and tasks tailored to individual capabilities and circumstances to accomplish each day. By breaking larger tasks into smaller, more manageable ones, individuals can maintain motivation and a sense of accomplishment.

Practise self-care: Nourish your body with nutritious food, adequate rest and sleep. Self-care activities such as meditation, journaling, and hobbies can promote relaxation and inner peace.

Harness technology: Leverage technology to bridge geographical distances and stay connected with loved ones through video calls and online platforms. Engage in webcasts and virtual communities to foster a sense of belonging and intellectual stimulation.

Virtual vacation: Explore destinations you've always wanted to visit by gathering information, watching videos, or participating in virtual tours. This not only provides a fun and immersive experience but also allows you to learn about different cultures, landscapes, and attractions from the comfort of your own home.

Seek professional help: If feelings of loneliness persist or become overwhelming, seek support from a mental health professional. Therapy and counselling can provide valuable insights and strategies to manage loneliness and enhance overall well-being.

Loneliness is a natural human experience that can be addressed through proactive measures and support systems to lead a fulfilling life enriched by meaningful relationships and experiences.

OFF THE EDGE
Nandini Raman

Take time to explore

Uncertain about your career options? Low on self-confidence? This column may help

opportunities, freelance projects, and collaboration opportunities.

I will complete B.E. in ECE but want to transition to being a fiction writer. I'm passionate about writing. How can I make this my career? Dinesh

Dear Dinesh,

Transitioning to being a fiction writer will require dedication, passion, hard work, continuous learning, networking, and strategic planning. Develop your writing skills and work on your portfolio to achieve some success and recognition as a fiction writer. Submit your short stories to literary magazines, newspapers and online platforms. Consider blogging to showcase your writing skills, share your stories, articles, and insights of your writing journey and connect with readers and followers.

Dedicating time every day to write, whether it is short stories, novels, articles, or other creative projects.

Read extensively to explore different styles, techniques, and storytelling approaches. Enrol in programmes to enhance your writing skills, learn new techniques, and receive feedback from experienced writers and instructors.

Join online communities to connect with other writers, literary agents, and industry professionals to seek advice, guidance, and mentorship, and build relationships and connections. Also consider working part-time as a content writer, copywriter, editor, or freelance writer to earn while you build your portfolio and expertise.

Disclaimer: This column is merely a guiding voice and provides advice and suggestions on education and careers.

The writer is a practising counsellor and a trainer. Send your questions to edplus.thehindu@gmail.com with the subject line Off the Edge

Nurture connections

Tips for students to develop resilience and combat loneliness



Pinky Burman Roy

We've all experienced loneliness at some point. It's a universal human emotion that can manifest in various ways, often described as an "emptiness" or a "hollow feeling" that's difficult to explain in words.

As social creatures, humans thrive in relationships and communities. Prolonged loneliness can lead to depression, low motivation, and low self-esteem. Today, understanding and addressing loneliness is more crucial than ever, especially among students who navigate the demanding terrain of academia.

Causes

Due to its highly competitive nature, high-grade requirements, and entrance exams, the Indian education system is drowning students in loneliness, anxiety attacks, and depression.

Beyond academic pressures, students in prestigious institutes face a myriad of challenges. Despite high aspirations, the intense competition and the success of their peers can

undermine their sense of achievement.

Moreover, the transition from home to campus life often engenders a sense of emptiness among many. However, by developing strong social skills, they can establish a supportive network of friends to mitigate the feelings of loneliness.

Additionally, the adjustment to a new routine can trigger various emotions, particularly when compounded by instances of bullying and abuse, which further exacerbate low self-esteem and contribute to depression.

Therefore, it is imperative to help students develop a sense of resilience, which can equip them to confront adversity with confidence.

Here are some steps that students can take to help them combat loneliness:

Build a support system: Cultivate meaningful

Set realistic, manageable and achievable goals and tasks tailored to individual capabilities and circumstances to accomplish each day

Engage with communities: Participate in online or in-person communities aligned with your interests and passions. Connect with like-

friends and peer relationships that provide emotional support and companionship.

Surround yourself with individuals who uplift and inspire you on your journey.

Volunteer: Volunteering is presented as a dual-purpose activity at this point. Not only does it serve the community but also offers a chance to connect with others who share your values and interests.

Whether you choose to volunteer at a local charity, animal shelter, or community event, the act of giving back can foster a sense of purpose and belonging.

Stay active: Engage in physical activities that promote overall health and well-being. Regular exercise – walking, jogging, swimming, or participating in sports – releases endorphins that act as natural mood lifters.

Physical activity also helps reduce stress and anxiety, improves focus and concentration, and overall cognitive function.

Engage with communities: Participate in online or in-person communities aligned with your interests and passions. Connect with like-

The writer is the Student Counsellor at Oakridge International School, Hyderabad

I am 22 and have completed B.A. (History, Public Administration and Political Science) with a gold medal in the latter two. I am preparing for my second attempt at the UPSC and pursuing a Master's in Public Administration through IGNOU. Should I opt for an MBA? Or look for further studies in Public Administration abroad? What other career options do I have? Nikhil

Dear Nikhil,
To make an informed decision on a career path that aligns with your interests, strengths, values, and long-term goals, explore, research, and reflect on the various options available. What type of work environment, role, and impact do you desire in your career? Seek guidance and advice from teachers, mentors, professors, and professionals from the fields. If you are committed to a career in Civil Services, focus on your UPSC preparation. With your brilliant academic achievements, you have a solid foundation. Would an MBA or studying abroad align with your long-term goals and aspirations? Evaluate the pros and cons based on your interests, goals, finances and future career prospects.

An MBA in Public Policy or Administration or General Management can provide you with a broader perspective and managerial skills required for leadership roles in the public sector, government jobs, corporates, NGOs, and international organisations. Pursuing a Master's or PhD in Public Administration or related fields abroad will provide you with international exposure,

