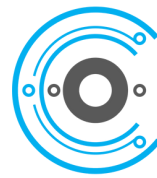


# AI:10



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**Y:WAIT**

Young Women in AI & Technology

## INDUSTRY FOCUS

# THE FUTURE OF EDUCATION

## : ChatMe or ChatMeNot?

An engaging, interactive fireside chat session on the future of work and education

## HEADLINE NEWS IN A FLASH

- Will artificial intelligence replace financial advisers? Here's what ChatGPT and a financial adviser had to say.
- The cost and sustainability of generative AI
- Harnessing the power of GPT-3 in scientific research
- China tech companies are closely watching ChatGPT's A.I. skills. Here's what they're doing about it
- Commentary: Could AI like ChatGPT replace human counsellors and therapists?
- Artificial Intelligence is booming – but how will it impact your career?

# THE FUTURE OF EDUCATION

## : ChatMe or ChatMeNot?

An engaging, interactive fireside chat session on the future of work and education

Here's a recap on the recent fireside chat session organized by CEAI

On Thu, 23 February 2023, Centre for AI Innovation (CEAI) organized a fireside chat entitled "The Future of Education: ChatMe or ChatMeNot?" which discussed the impact of chatbots and conversational AI on the future of education and work. The panelists explored how chatbots and conversational AI can be used to provide personalized learning experiences and streamline administrative tasks. The chat concluded with the panelists emphasizing the need for collaboration between educators, industry leaders, and policymakers to ensure that the use of chatbots and conversational AI in education is ethical, equitable, and effective. If you missed the fireside chat, here's a recap of the dialogue between the speakers and moderator;

**Moderator Shanker:** Thank you, Pat and Prof Nazri, for joining me today to discuss the impact of ChatGPT on education and employment. Let's jump right in with our first question.

### 1. Pat, as a management consultant and a mother, what are your thoughts on the impact of ChatGPT on students' learning and behaviour?

**Pat:** Well, Shanker, as you mentioned, there are certainly benefits to using chatbots like ChatGPT in schools. They can help students find information quickly and stay organized. However, I do worry about the potential negative impact on critical thinking and problem-solving skills. It's important for students to learn how to research and analyze information on their own, rather than just relying on a chatbot to provide answers.

## **Moderator Shanker: Prof Nazri, what is your perspective on this issue?**

**Prof Nazri:** I agree with Pat that chatbots can be a valuable tool for students, but we need to be mindful of their limitations. While they can provide quick answers, they can't replace the deeper understanding that comes from critical thinking and analysis. It's important for students to develop these skills through traditional teaching methods as well.

## **2. Moving on to our next question, what do you think the impact of ChatGPT and other chatbots will be on the job market?**

**Pat:** I think that employers will be looking for candidates who can think critically and creatively, and who are able to solve problems independently. If graduates rely too heavily on chatbots, it could potentially hinder their job prospects. However, if they use chatbots as a supplement to their own skills and knowledge, it could actually enhance their performance in the workplace.

**Prof Nazri:** I agree with Pat. While technology can certainly enhance productivity and efficiency in the workplace, it's important for employees to have a balance of both technological skills and soft skills like critical thinking and problem-solving. Employers will be looking for candidates who can adapt to new technologies while also bringing a unique perspective and creative problem-solving skills to the table.

## **3. What are some advantages of using ChatGPT in schools?**

**Pat:** One advantage of using ChatGPT in schools is its ability to provide quick answers and assistance to students. For example, if a student is struggling to understand a particular concept in math, they can use ChatGPT to get immediate feedback and guidance.

**Prof Nazri:** Another advantage is that using chatbots can help students to stay organized and keep track of their assignments and deadlines. For instance, a student can use ChatGPT to set reminders for upcoming exams or assignments, helping them to manage their time more effectively.

## **4. What are some drawbacks to using ChatGPT in schools?**

**Pat:** One notable drawback is that the reliance on technology may hinder critical thinking and problem-solving skills. For example, if a student always relies on ChatGPT to provide answers, they may not develop their own ability to research and analyze information.

**Prof Nazri:** Another drawback is that the use of chatbots in schools may lead to a negative impact on behaviour. For instance, some students may be tempted to cheat on assignments or exams by using ChatGPT to provide answers, which could ultimately undermine the value of education.

## **5. What are the potential implications of using ChatGPT in schools for future employment?**

**Pat:** The use of ChatGPT and similar technologies in schools may lead to a lack of creativity and innovation in the workplace if employees rely too heavily on technology to provide solutions. For example, if a graduate



is used to always using ChatGPT to solve problems, they may struggle to come up with original ideas or approaches to challenges.

**Prof Nazri:** Additionally, employers may be hesitant to hire graduates who are overly dependent on chatbots or other forms of technology, as they may lack the critical thinking and problem-solving skills necessary to succeed in a competitive job market. For instance, if a job requires creative problem-solving, an employer may be more likely to hire a candidate who has demonstrated these skills through their education and experiences, rather than one who relied heavily on chatbots.

**Moderator Shanker:** Thanks, Patrizia and Prof M Nazri.

## **6. How do you think the increasing use of ChatGPT and other AI-based technologies in schools will impact employers and the workforce?**

**Patrizia:** I believe that the use of ChatGPT will change the types of skills and experiences that employers will value in job candidates. For instance, as technology becomes more prevalent in the workplace, candidates who are comfortable using chatbots and other AI tools will be highly sought after.

**Prof M Nazri:** I agree with Patrizia. The use of ChatGPT and similar technologies will also change the nature of daily work deliverables for new graduates. As AI becomes increasingly integrated into the workplace, tasks that were once performed by humans may become automated, requiring employees to focus on more complex, strategic work.

## **7. What are some of the benefits and drawbacks of using ChatGPT in the workforce?**

**Patrizia:** One benefit of using ChatGPT is that it can help to streamline and automate many routine tasks, freeing up employees' time to focus on more strategic work. Additionally, AI tools like chatbots can help employees to access information and insights more quickly and efficiently, improving their ability to make data-driven decisions and improve their work.

**Prof M Nazri:** However, the reliance on technology may lead to a loss of human interaction and collaboration. This could ultimately lead to a decrease in innovation and creativity in the workplace, as employees become more isolated and disconnected from one another. Additionally, the use of ChatGPT in the workplace may lead to concerns about data privacy and security.

## **8. How can employers and graduates strike a balance between using AI technology to improve operations and work, while also prioritizing the value of human collaboration and critical thinking?**

**Patrizia:** Employers need to carefully consider the potential benefits and drawbacks of AI tools like chatbots and determine how they can best leverage this technology to improve their operations and drive growth. For new graduates, it will be important to develop a strong understanding of AI technology and its applications in the workplace, and to be able to adapt to changing work requirements and expectations.

**Prof M Nazri:** I believe that employers can strike a balance by using AI technology to automate routine tasks and free up employees' time to focus on more complex work, while also fostering a culture of collaboration and innovation. For example, employers can encourage employees to work together on complex projects and provide opportunities for training and development in areas like critical thinking and problem-solving.

**Moderator Shanker:** Now, we'll be summing up the discussions on how generative AI can change the way we work, live and play. Let's dive right in.

## 9. How can generative AI improve the way we work? Can you give us some examples?

**Patrizia:** Generative AI can help automate routine tasks and free up time for more complex and creative work. For example, in the finance industry, generative AI can be used to automate data entry and analysis, freeing up financial analysts to focus on strategic thinking and decision-making.

**Prof M Nazri:** Generative AI can also improve collaboration in the workplace. With chatbots and virtual assistants, employees can more easily communicate and share information, regardless of their physical location. This can improve productivity and reduce the time and cost associated with face-to-face meetings.

## 10. How can generative AI change the way we live?

**Prof M Nazri:** Generative AI can improve our daily lives in many ways. For example, it can be used in healthcare to help diagnose diseases and develop personalized treatment plans. It can also be used to optimize energy usage in smart homes, reducing waste and saving money.

**Patrizia:** In addition, generative AI can enhance our entertainment experiences. It can be used to create personalized playlists and recommendations, based on our individual preferences and past behaviors.

***"...employers can strike a balance by using AI technology to automate routine tasks and free up employees' time to focus on more complex work, while also fostering a culture of collaboration and innovation."***

## 11. Can generative AI impact our creativity and innovation?

**Patrizia:** Absolutely. Generative AI can be used to help us generate new ideas and solutions. For example, in the advertising industry, generative AI can be used to generate new taglines and slogans, or even help create entirely new brand identities.



**Prof M Nazri:** However, there is a concern that generative AI may lead to a loss of creativity and originality, as we become more reliant on machines to generate ideas. It will be important for us to strike a balance between using generative AI to enhance our creativity and ensuring that we continue to value and prioritize human innovation.

## 12. How can generative AI change the way we play?

**Prof M Nazri:** Generative AI can transform the way we play video games and other digital experiences. For example, it can be used to generate new game levels or challenges in real-time, based on the player's behavior and preferences.

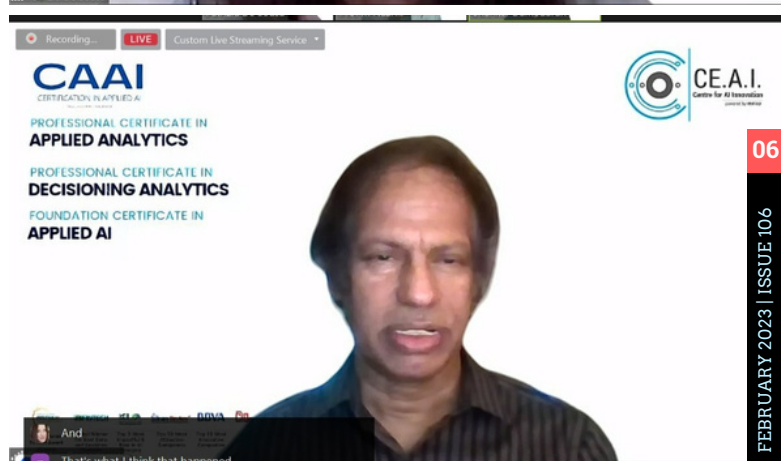
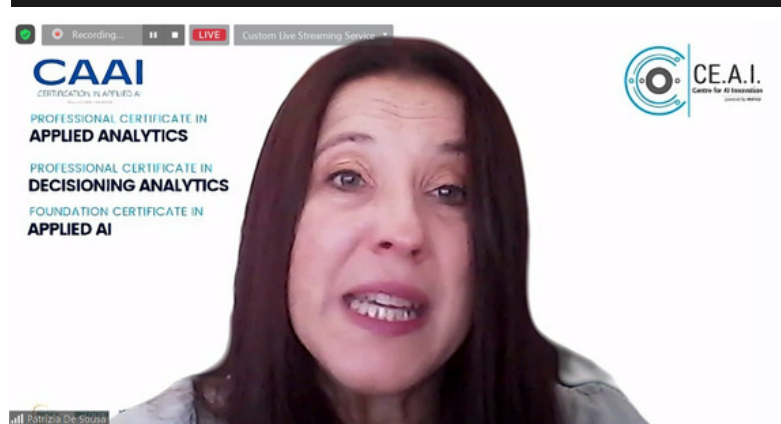
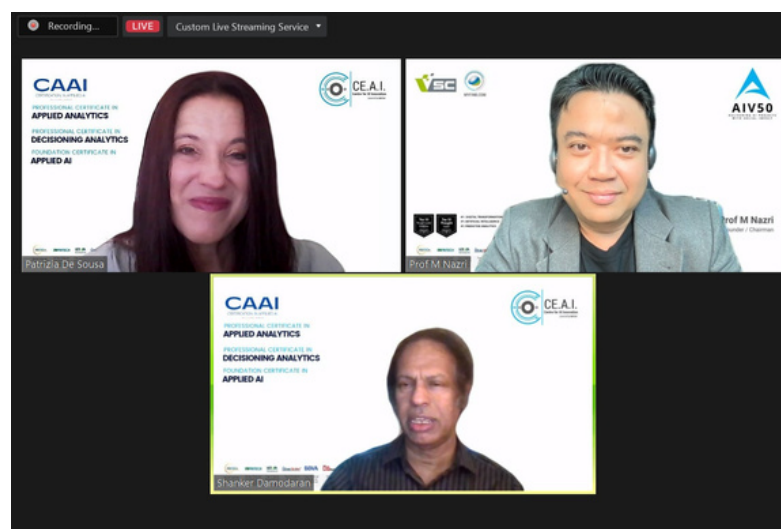
**Patrizia:** Generative AI can also be used to create new forms of interactive media, such as immersive virtual reality experiences. It can be used to generate lifelike environments and characters, providing a more engaging and realistic experience for the player.

## 13. What are the ethical considerations we should keep in mind as we adopt generative AI in our daily lives?

**Patrizia:** We need to be aware of potential biases in the data used to train generative AI models. If the data is biased, the output generated by the model will also be biased, which could lead to unintended consequences.

**Prof M Nazri:** We also need to consider the impact of generative AI on privacy and security. As machines generate more personal data, we need to ensure that this data is protected and not misused.

**Moderator Shanker:** Thank you, Patrizia and Prof M Nazri, for sharing your insights on how generative AI can change the way we work, live and play. It's clear that generative AI has the potential to revolutionize our lives, but we need to be mindful of the ethical considerations and potential drawbacks as we continue to adopt this technology.





# HEADLINE NEWS IN A FLASH

## WILL ARTIFICIAL INTELLIGENCE REPLACE FINANCIAL ADVISERS? HERE'S WHAT CHATGPT AND A FINANCIAL ADVISER HAD TO SAY.

Could an AI like ChatGPT take peoples' jobs?

AI programs such as ChatGPT can master human languages and coding languages – and they can't accidentally forget information the way humans can. With that in mind, some people worry that AI could automate away a lot of jobs in the coming decades, including "knowledge jobs," which were previously considered safe from conventional, factory-robot-style automation. In November 2017 – five years before the launch of ChatGPT – consulting firm McKinsey published a report estimating that between 400 million and 800 million workers globally could be displaced by automation by 2030. LLMs have already encroached on some knowledge-based professions, such as financial journalism. For example, the technology website CNET announced in January 2023 that it had published several dozen AI-written personal finance articles.

Source: MorningStar

## HARNESSING THE POWER OF GPT-3 IN SCIENTIFIC RESEARCH

GPT-3's emergence has also heralded a new era in scientific research. Since the LLM can process vast amounts of information quickly and accurately, it has opened up a wide range of possibilities for researchers: generating hypotheses, extracting information from large datasets, detecting patterns, simplifying literature searches, aiding the learning process and much more. Is this the future of scientific research? You could say that it's a bit too early to suggest that. But one thing is for sure: The new range of AI-based applications is helping many researchers connect the dots faster. And GPT-3 has a massive hand in that. Labs and companies worldwide are using GPT-3's open API to build systems that not just enable the automation of mundane tasks but also provide intelligent solutions to complex problems. In life sciences, you have GPT-3 being used to gather insights on patient behavior for more effective and safer treatments.

Source: VentureBeat

## COMMENTARY: COULD AI LIKE CHATGPT REPLACE HUMAN COUNSELLORS AND THERAPISTS?

Companies and government agencies have embraced the potential of AI chatbots, rolling them out as a resource for employees. Take for example the use of Wysa by the Ministry of Education to reduce stress in the teaching workforce. According to a survey published by the Singapore Counselling Centre in 2021, about 56 per cent of teachers said they were overwhelmed with their jobs. They cited long hours, with 80 per cent working more than 45 hours a week. When faced with these issues, organisations tend to jump to the individual worker to fix the problem through workplace wellness programmes or initiatives. As seeing a psychologist or counsellor can be costly and involve long waiting times, the use of AI chatbots is seen as a means of supporting mental health and wellbeing. However, in the current state of play, AI mental health chatbots provide the illusion of help, and there is a lack of evidence demonstrating their effectiveness and safety in mental health.

Source: ChannelNewsAsia

## THE COST AND SUSTAINABILITY OF GENERATIVE AI

AI is resource intensive for any platform, including public clouds. Most AI technology requires numerous inference calculations that add up to higher processor, network, and storage requirements—and higher power bills, infrastructure costs, and carbon footprints. The rise of generative AI systems, such as ChatGPT, has brought this issue to the forefront again. Given the popularity of this technology and the likely massive expansion of its use by companies, governments, and the public, we could see the power consumption growth curve take on a concerning arc. AI has been viable since the 1970s but did not have much business impact initially, given the number of resources needed for a full-blown AI system to work. I remember designing AI-enabled systems in my 20s that would have required more than \$40 million in hardware, software, and data center space to get it running. Spoiler alert: That project and many other AI projects never saw a release date. The business cases just did not work.

Source: InfoWorld

## CHINA TECH COMPANIES ARE CLOSELY WATCHING CHATGPT'S A.I. SKILLS. HERE'S WHAT THEY'RE DOING ABOUT IT

Big tech companies in the U.S. and China rushed this month to announce they are working on similar AI tools. Their announcements often referenced Microsoft-backed ChatGPT, while disclosing few details on what they themselves were working on. The artificial intelligence-powered chatbot ChatGPT has taken the tech world by storm in the last few months with its ability to generate everything from poems to business strategies in a human-like conversation. Still, analysts say the tech is transformative, something that's also been said about blockchain and the metaverse. U.S. startup OpenAI raced to beat rivals by launching ChatGPT in November, according to The New York Times, citing sources. The public interface skyrocketed in popularity for everything from homework help to strategy development. An OpenAI spokesperson said the company did not have anything to add regarding the Times' report. The funding is critical. Every ChatGPT conversation costs a few cents to complete, the startup's chief executive said in December.

Source: CNBC

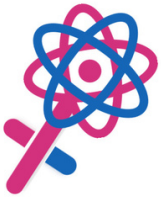
## ARTIFICIAL INTELLIGENCE IS BOOMING – BUT HOW WILL IT IMPACT YOUR CAREER?

Replacing or creating jobs? – The short answer to the question of whether AI will replace some jobs is a big, fat "yes." Developments in artificial intelligence mean that technology can achieve more and more, and that will, of course, impact jobs, Steven Miller, professor emeritus of information systems at Singapore Management University, says.

"As physical machines, software systems, and combinations of hardware and software get more capable as a result of AI-enablement, it is increasingly possible as well as economically viable to replace a greater share of the portions of the human work of today with machines," he told CNBC Make It. Certain roles are more vulnerable to this than others, Miller adds — especially ones that are highly repetitive or based on very specific instructions or rules that lay out what needs to be done. On the flipside, tasks that change often and therefore require things like adaptability and flexibility are harder for technology to replace.

Source: CNBC





# Y:WAIT

Young Women in AI and Technology

## Who are we?

Y:WAIT is a student-led organisation built to support young women in STEM involved in the application of AI, Sciences and Technology in the work we do.

## What can you expect?

- Global mentorship and advisory network
- Company visits catered to young students interested in pursuing careers in the technology industry
- Seminars and webinars with esteemed speakers from all over the globe
- Nationwide & Gglobal competitions/hackathons designed to encourage innovation in AI, especially for female youths

## What is our purpose?

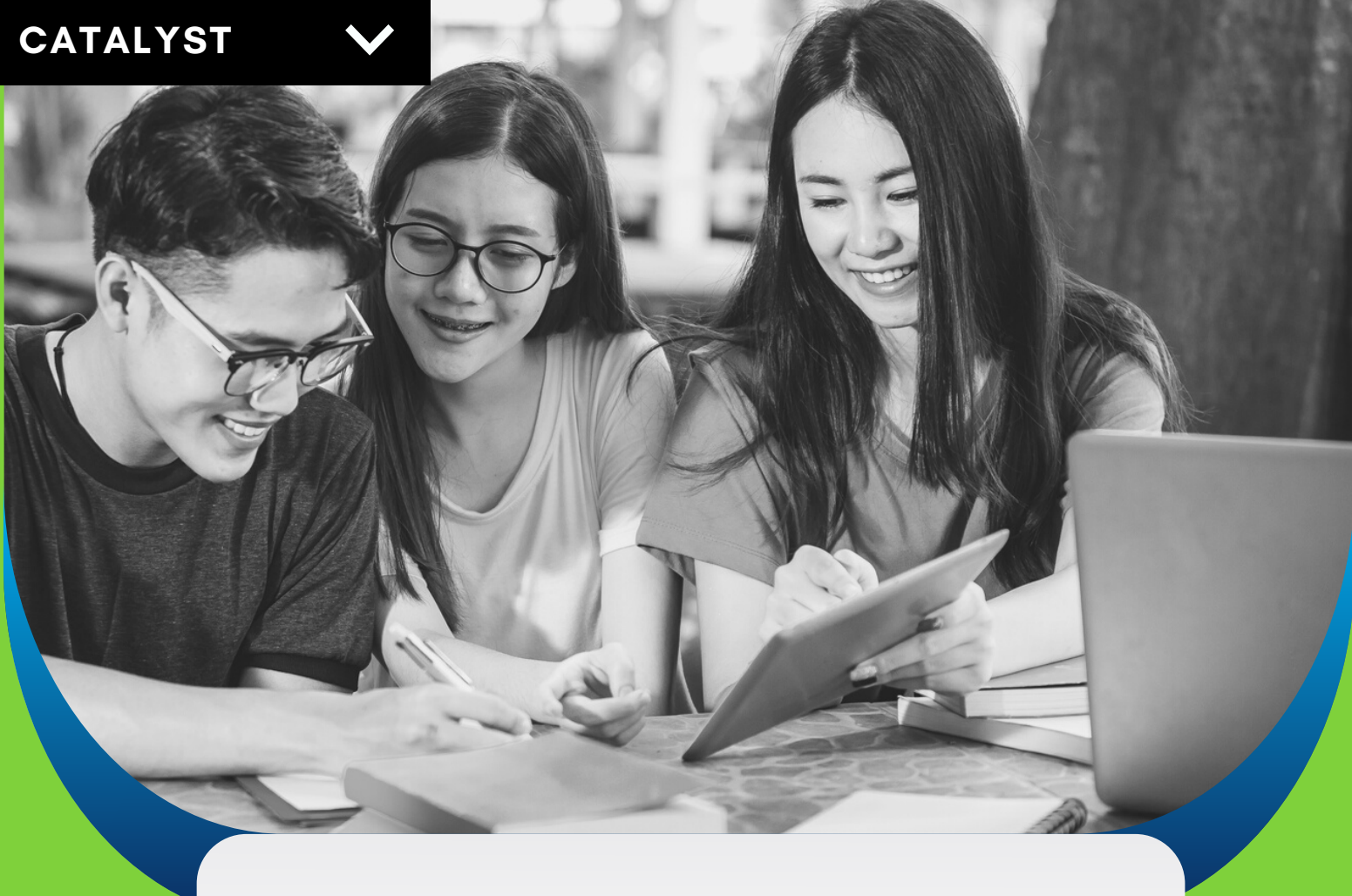
Raise awareness and promote interest about young women in STEM, create new and innovative ideas, build connections and partnerships within the industry and form new ventures that create impact; a movement that encourages the question: why wait?

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#### SURYADATTA EDUCATION FOUNDATION

The Suryadatta Education Foundation, SEF, is a charitable trust registered with the Registrar of Societies, Government of Maharashtra. The Suryadatta Group of Institutes was established in the year 1999, with the blessing of Late Smt Ratanbai & Shri Bansilalji Chordia in Pune – The Oxford of East.

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Women Entrepreneurship Cell under Kadi Sarva Vishwavidyalaya (KSV), managed by Sarva Vidyalaya Kelavani Mandal, Kadi and Gandhinagar, Gujarat, India, established in 2016, to ignite the spirit of Entrepreneurship amongst our students. In the current era, countries should create more support systems for encouraging entrepreneurship among students. At the same time, it is to foster gender equality to break away from stereotyped mindsets.

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#### KADI SARVA VISHWAVIDYALAYA

Kadi Sarva Vishwavidyalaya is a University established vide Gujarat State Government Act 21 of 2007 in May 2007 and approved by UGC (ref F. 9-18/2008(cpp-1) March 19,2009). The University has been established by Sarva Vidyalaya Kelavani Mandal to achieve the following objectives: To provide need-based education and develop courses of contemporary relevance. To be a University of excellence by providing research-based activities which would foster higher economic growth. To provide education to all irrespective of caste, creed, religion etc. The University has at present 19 Constituent Colleges/Departments at Gandhinagar and Kadi.

Website: [www.ksv.ac.in](http://www.ksv.ac.in)



#### BE PHENOMENAL

Dr. Rachana specialized in Cosmetic Dentistry from State University of New York. After rendering her services to the medical field and its beneficiaries for a decade, she decided to contribute to her family business when she did her MBA from Nirma University with Gold Medal. Furthering the growth of human centric business approach, she successfully completed her course in Executive Education in Design Thinking from Stanford University.

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