

MARCH 2023

# TECHNO TEACHERS

WOMEN'S DAY SPECIAL EDITION



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

"Team Technosites wishes you all a Happy Women's Day"

### Message from Dr. Ajit S. Patil : Head of Department



On the occasion of **International Women's Day**, I am thrilled to present this special edition of "**Technosites**" dedicated to our female colleagues in the department of Computer Science and Engineering at Kolhapur Institute of Technology's College of Engineering Autonomous Kolhapur. It's no easy feat to balance work and home responsibilities, but our female colleagues have always managed to do so effortlessly. We have much to learn from them when it comes to managing their lives, careers, aspirations, and finding a harmonious balance between them all.

Pursuing a career in the ever-changing field of technology can be particularly challenging, but our female colleagues have been doing an outstanding job and leading the way in disseminating knowledge to future generations. I wish you all success and prosperity on this special day.

### Message from Dr. Kapil Kadam : Technosite co-ordinator

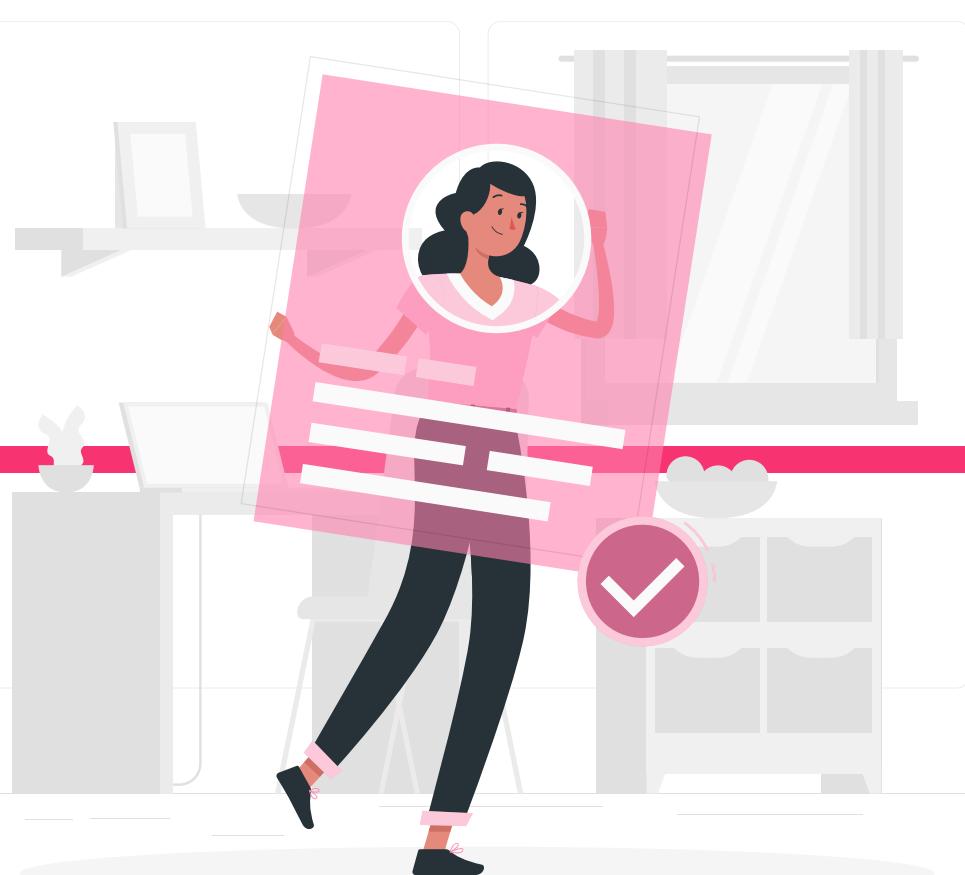
To all the incredible Techno-Teachers,  
You have always been a constant source of inspiration and a rock of support to many of us. We are grateful for everything you have contributed to computer science education all these years. We wish you a Happy Women's Day!  
Keep shining and inspiring!



### Team Technosites

- Ketan Kokitkar
- Hrishikesh Kole
- Heramb Gurav
- Sejal Vaswani
- Shreaya Panditrao
- Manasi Chougule
- Shiraj Khochage
- Vivek Sutar
- Samruddhi Bhole
- Nilam Kumbhar
- Anushka Bhoy
- Sarvesh Pujari
- Pranav More
- Shraddha Jadhav
- Aarya Teli
- Hritwik Shirolkar
- Gayatri Bhagawat





# DR. MAMTA S. KALAS

Mail id : [kalas.mamta@kitcoek.in](mailto:kalas.mamta@kitcoek.in)



**Prof. Mamta has been contributing to the field of education for the last 27 years. She has taught subjects like Artificial Intelligence and Machine Learning, Pattern Recognition, and Image Processing. She has 30 research publications in the field.**

## How has the field changed since you started in CS, and what was your inspiration?

The field of computer science is becoming increasingly important as the economy becomes more dependent on computers and the Internet. As this process is happening, computer hardware and software technology are rapidly increasing in power and sophistication.

Inspiration-Throughout my academic life, I have had different ideas about what career I would pursue in the future.

## When teaching CS, what challenges did you face? What strategies do you use to overcome these challenges?

I have been responsible for NAAC accreditation, Peer team visit, and working in different committees. I have given the administrative role as Head of the Department of CSE in 2020 during the COVID Pandemic period, and successfully organized Technical Talks, webinars, and STPs for students. I have signed 5 MoU with Distinct Companies, and recently received Best CoE coordinator award for successfully implementing CoE of Eduskills-AICTE Cell at KITCOEK.

## How do you balance your professional and personal life and what do you advise girls who are pursuing engineering when it comes to facing changes in both their personal and professional lives?

The most important details in this text are the administrative tasks assigned to the author, such as NAAC Accreditation, Peer team visit, Board of studies, Interview Committees, Chaired conferences, workshops, and member of Internal Complaints Committee. They have also worked in different committees, and have organized Technical Talks, webinars, STP'S for students to enhance their technical skills. They have signed 5 MoU with Distinct Companies, and recently received Best CoE coordinator award for successfully implementing CoE (Centre of Excellence) of Eduskills-AICTE Cell at KITCOEK.

## How do you keep up to date with the latest trends and advancements in the field?

Attention to social media. One of the most convenient places to stay updated with trends in social media. ..Regularly tuned with industry trade publications and websites; national, regional, and city newspapers, influential bloggers and business thought leaders. Get involved in the industry. Joined industry associations, attended their events, take training, and

participated in online communities. Give industry newsletters a try. Another way to follow trends is to sign up for newsletters. Use of analytical tools.

## Please suggest some CS platforms that you follow and that everyone should follow.

Working in the field of AI and machine learning means innovating the technology of tomorrow. This industry may be good for you if You're able to think creatively and analytically

## Can you share your views on future CS education (what you feel are the best teaching learning practices) and career paths for women?

See there are lots of opportunities. What we need is just to be focused, confident n should believe in yourself it is a vast stream. Just be positive in your life n see opportunities in every problem

There are many options like:-  
Campus placement

Do MBA

Do M. Tech  
Civil services

Short term courses

One can also prepare for bank competitive exams like - PO, clerk n many more. you can also give railway competitive exams suitable for girls.

We just need to believe in ourselves that we can crack it. , just do whatever your mind says. Go with that and then see the magic. Read positive and inspiring stories n be happy always because friends everything happens for a reason.



# MRS. DIPALI JADHAV

Mail id : jadhav.deepali@kitcoek.in



**Prof. Dipali has been contributing to the field of education for the last 20 years. She has taught subjects like Database Engineering, Advanced Database Engineering, Computer Algorithms, Computer Graphics, and Digital System and microprocessors.**

## How has the field changed since you started in CS, and what was your inspiration?

I started my journey in KIT's College of Engineering, Computer Science and Engineering department in July 2003. In the last 20 years, I have seen so many changes in the Computer Science field. The market's ongoing demand for programming and equipment updates has required that professionals working in the field of computer science continuously update their skill sets as well. And this ongoing upgradation inspires me to learn new things that help me to improve my teaching and learning skills.

## When teaching CS, what challenges did you face? What strategies do you use to overcome these challenges?

Over the last twenty years, the evolution of computers, in general, is astronomical. We need to be more aware of how rapidly technology is changing in the field of computer science. When I began my teaching career, there were only a few programming languages available such as C, C++, Java, etc. But now as the field of computer science is expanding, I must learn new programming languages like Python, R Programming, and AR-VR technologies, among others. In order to do that, I completed numerous online certification courses offered by various IITs, attended workshops to improve

my knowledge of new technologies, and attempted to overcome these difficulties. From COVID 19 situation I learn so many **e-content development tools** and share my knowledge with students. I started **my own YouTube channel**, so that students can learn through it.

## How do you balance your professional and personal life and what do you advise girls who are pursuing engineering when it comes to facing changes in both their personal and professional lives?

You need to **be aware of your priorities** if you're going to balance your professional and personal life properly. As a result, when pressure or an urgent situation arises, you are not torn over what is most important to you. Maintaining your professional and personal life can get pretty hectic for girls sometimes. Girls have dual responsibilities of family and profession. In this case, I advise them to make a schedule based on their priorities and try to follow it. If you can minimize the unplanned distractions in your professional life, you can prevent them from constantly interfering with your personal life.

## How do you keep up to date with the latest trends and advancements in the field?

In the 21st century, the evolution of technology is happening at rapid speed. Over the past 20 years, we've seen the stellar

rise of technologies straight out of 1980s sci-fi to smartphones and tablets, social media, and so on. To keep up to date with the latest technology, I **follow technical leaders** on social media and completed certification courses. Google and YouTube are the best platforms to learn the latest trends and advancements in the field of Computer Science.

## Please suggest some CS platforms that you follow and that everyone should follow.

Follow technical leaders on social media. Read the technical **blogs**. Join **technical forums**. Attend Technical events. Read technical newsletters and Certification Courses.

## Can you share your views on future CS education (what you feel are the best teaching learning practices) and career paths for women?

Careers involving computers and information technology (IT) are expected to expand much more quickly in the next few years. Many employment prospects are made available by earning a computer science degree, whether it be a master's or a bachelor's. Emerging areas in computer science include bio-informatics, AI, ML, robotics, cyber security, and many others. In the years to come, opportunities for women in computer science will increase.



# MRS. RANJEETA B. PANDHARE

Mail id : [pandhare.ranjeeta@kitcoek.in](mailto:pandhare.ranjeeta@kitcoek.in)

**Prof. Ranjeeta has been contributing to the field of education for the last 20 years. She has taught subjects like Information Security Systems, Discrete Mathematics, Database Management Systems, Software Engineering, and Project Management.**

## How has the field changed since you started in CS, and what was your inspiration?

Yes. Definitely! there are a lot of changes in the field of CS and rapid development in technology both software and hardware. My inspiration is always my friends and colleagues who have inspired me to do the best in my career since I started.

## When teaching CS, what challenges did you face? What strategies do you use to overcome these challenges?

Challenges are always there in every profession. I tried my best to teach the students with the same enthusiasm I had in my initial teaching days. Technology changes rapidly in CS, so I needed to upgrade myself first and learn new concepts of CS on the fly.

## How do you balance your professional and personal life and what do you advise girls who are pursuing engineering when it comes to facing changes in both their personal and professional lives?

I never mix my personal life with a professional one. I do love my job in every aspect and balance both of them. I would advise girls that Nothing is impossible if they work hard to achieve their goals with sincere efforts and honesty. Believe in yourself as you are capable to do anything and deserve the best in life.

## How do you keep up to date with the latest trends and advancements in the field?

Learning is the phase that never ends. I keep on learning and trying to keep up with the latest trends and advancements in the field of CS.

## Please suggest some CS platforms that you follow and that everyone should follow.

Research and innovation in Engineering and technology, cyber security, AI, ML, and data science/ analytics are emerging platforms that are growing very fast and are providing a lot of opportunities for students who want to choose their career in these domains.

## Can you share your views on future CS education (what you feel are the best teaching learning practices) and career paths for women?

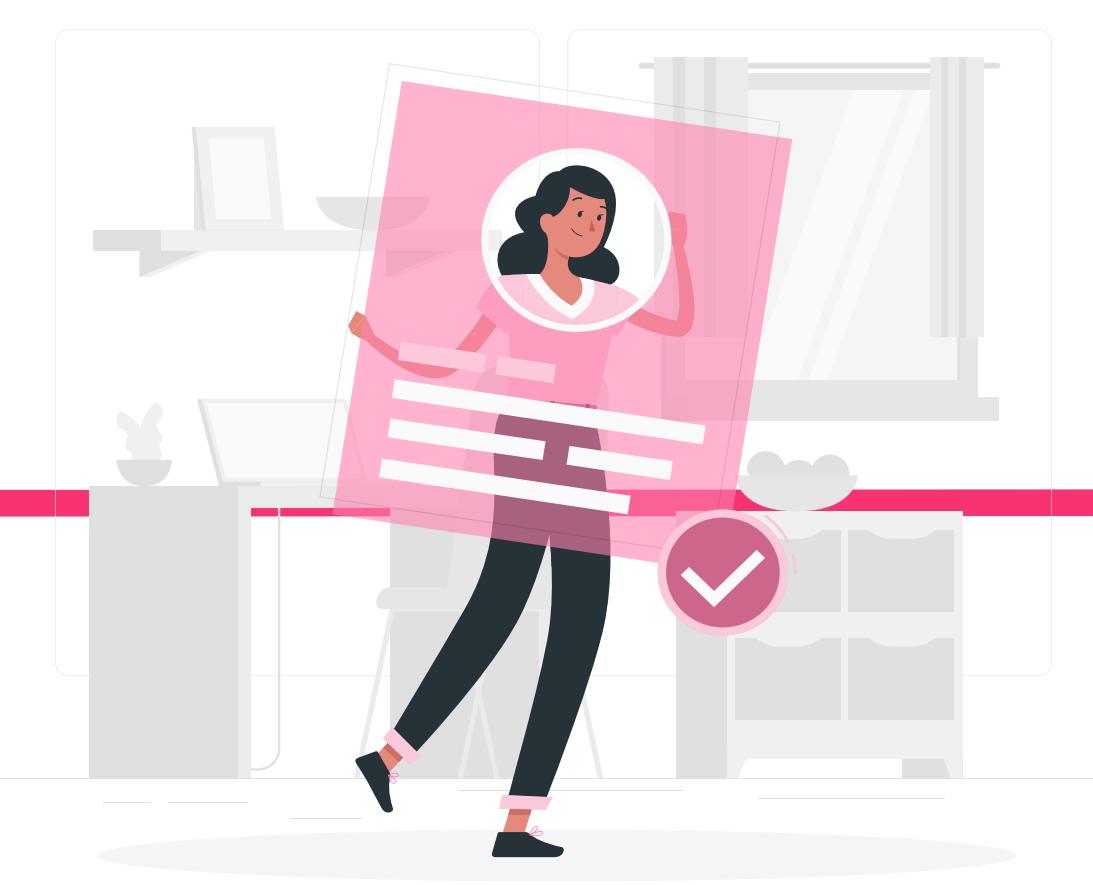
The future of the computer science field is growing rapidly with a lot of opportunities for techno-savvy and career-oriented women.





# MRS. ARCHANA S.SAWANT

Mail id : [sawant.archana@kitcoek.in](mailto:sawant.archana@kitcoek.in)



**Prof. Archana has been contributing to the field of education for the last 19 years and has a wealth of experience in System programming, Compiler Construction, Software Testing, Software Engineering, Project Management, Real-Time Operating Systems, Distributed Systems, Digital Logic Design, and Soft Computing.**

## How has the field changed since you started in CS, and what was your inspiration?

In my education days, if a child is better in academics, his path was set to either Medical or Engineering. I was not interested in Medicals so only I went to engineering and Computer engineering was a new door opened; ultimately I entered. Later on in the Journey of engineering few or more personalities motivated me in many aspects. When I was in college we were using an 8-inch floppy disk with a storage capacity of 80 kilobytes. The size shrunk to 5½ inch and 3½ inch with 1.44 megabytes and now Gigabytes and Terabytes are common for us. Languages I started with are COBOL, FORTRAN, and C. Now C++, JAVA, Python, MATLAB, and GO are new to me. This is the field where every day new technology and new opportunity knocks in. CS has become an integral part of day-to-day life activities. Surprisingly everyone is adopting this speed of change more or less. **My career is by chance but my Profession is my choice.**

## When teaching CS, what challenges did you face? What strategies do you use to overcome these challenges?

As we know CS technology changes more frequently than other branches. Being a teaching faculty in CS I find it challenging to possess adequate content knowledge or pedagogical knowledge, knowledge about emerging tools and

technologies, teaching skills, and understanding of the audience also. All these are nothing but opportunities for me. I use to read books by different authors, worldwide new reference content available on the internet, contents problem-solving practices, attend Development programs, discussions with experts, and NPTEL courses to overcome these challenges.

## How do you balance your professional and personal life and what do you advise girls who are pursuing engineering when it comes to facing changes in both their personal and professional lives?

Well, I don't consider Life to be something you should balance. You need to balance yourself according to turns and twists in life. Whatever challenges will come, accept them and live beautifully. In my opinion, Personal and Professional life is nothing but the way you handle responsibilities on both fronts. It is just a management of vitality, priority, and a plan for that moment. We should not forget that problems are never ending but every problem has solutions. You just need to pick one with your conscience. It is very simple: In Professional life, you need to **Love your work**; do it **sincerely and honestly**. In your Personal life Be kind to everyone in your life and Love life.

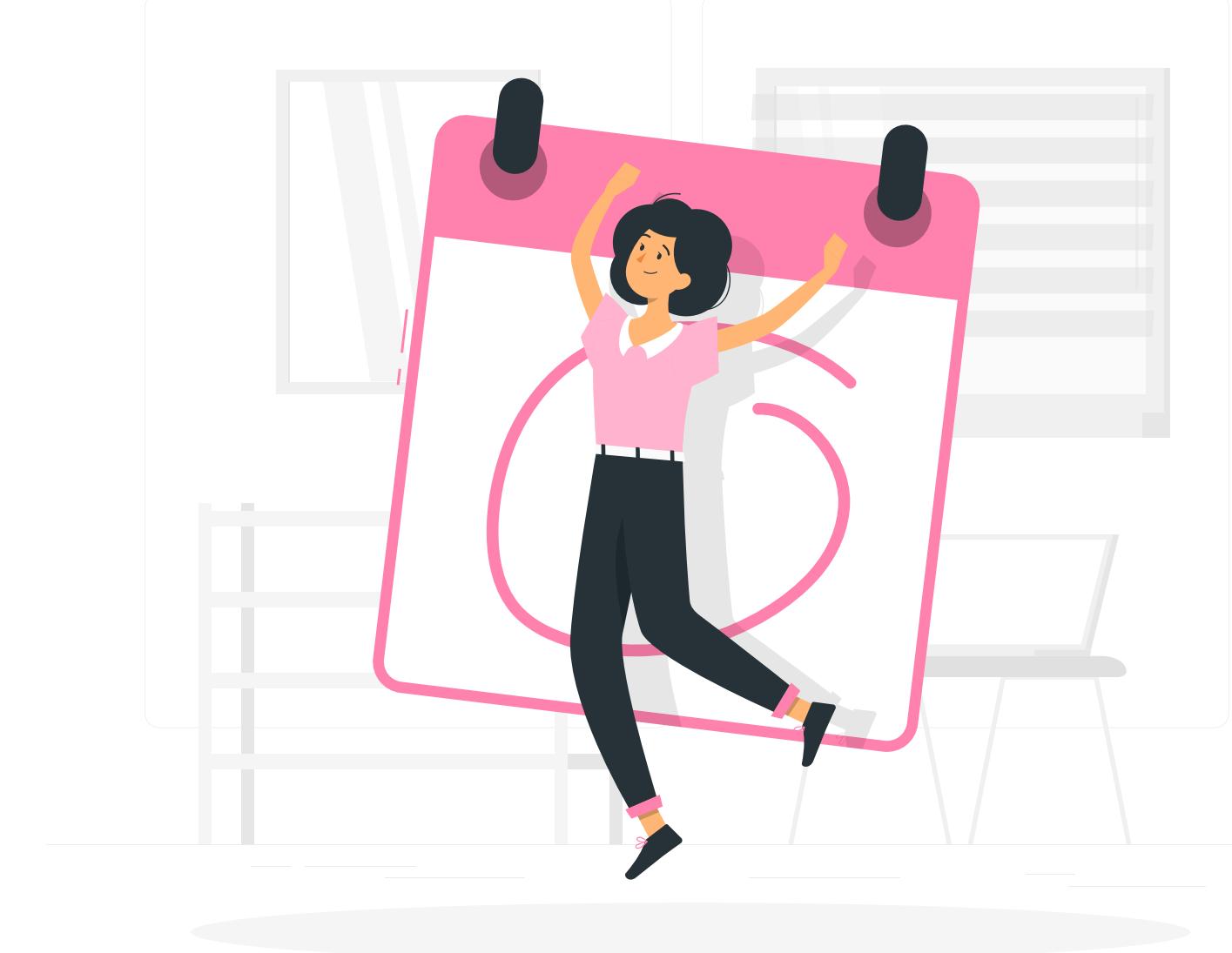
## How do you keep up to date with the latest trends and advancements in the field?

I would like to mention here, since the last 20 years I have been in the youngsters crowd only; Ultimately new trends in every term influences

me to get more information about it. Keeps me enthusiastic and young always.(Kidding). I think the urge to learn plays a major role in keeping you updated with the latest trends and advancements. Reading helps me a lot to know things. I always loved to read; not only CS specific contents but also all the things that I notice around me. May it be Machines, medicinal, pharmaceutical, health related, business and many more. I find the Internet is the ocean of knowledge. Once you start reading websites, articles , journals, research papers, company projects , govt Projects you definitely will know a variety of new things that you never know. **"Duniya me Knowledge bhara pada hai kahin se bhi bator lo"**

## Please suggest some CS platforms that you follow and that everyone should follow.

There are different platforms for different purposes like content knowledge, programming knowledge, programming competitions, problem-solving, and project development. E.g. TechCrunch, Topcoder, GitHub, SourceForge, CodeSchool, W3Schools, NPTEL, Coursera, HackerRank, StackOverflow, CodeChef. If you just **search for a technical keyword** you will get to know thousands of informative sites.



## Can you share your views on future CS education (what you feel are the best teaching learning practices) and career paths for women?

See, CS is just not the future, it has become our present. CS becomes more important as the economy, health and every facet of our lives become more dependent on tech. The student should utilize their time for upgrading and updating themselves with Global Trends. Besides classroom teaching-learning; I believe in Project work, **Flipped classrooms, Experts' hands-on lectures, and students' presentations** as best practices of teaching and learning where student can broaden their knowledge in the selected area. True to its global reputation the Indian IT sector has lots of scope in terms of growth and employment opportunities. I would not like to discriminate career paths based on gender but yes tremendous opportunities are there in CS; listing a few for example Teaching research, Scientists, Analysts, Data Engineers, Business Analysts, Web Developers, Software Engineers, Security specialists, Machine learning engineers, Financial Banking computing and **what not.....**



## DR. SHIVANI S. KALE

mail id: [kale.shivani@kitcoek.in](mailto:kale.shivani@kitcoek.in)

Prof. Shivani has contributed to the education field for the last 15 years. She has taught subjects like machine learning and data science. She also has extensive experience as a motivational speaker and life coach.

### How has the field changed since you started in CS, and what was your inspiration?

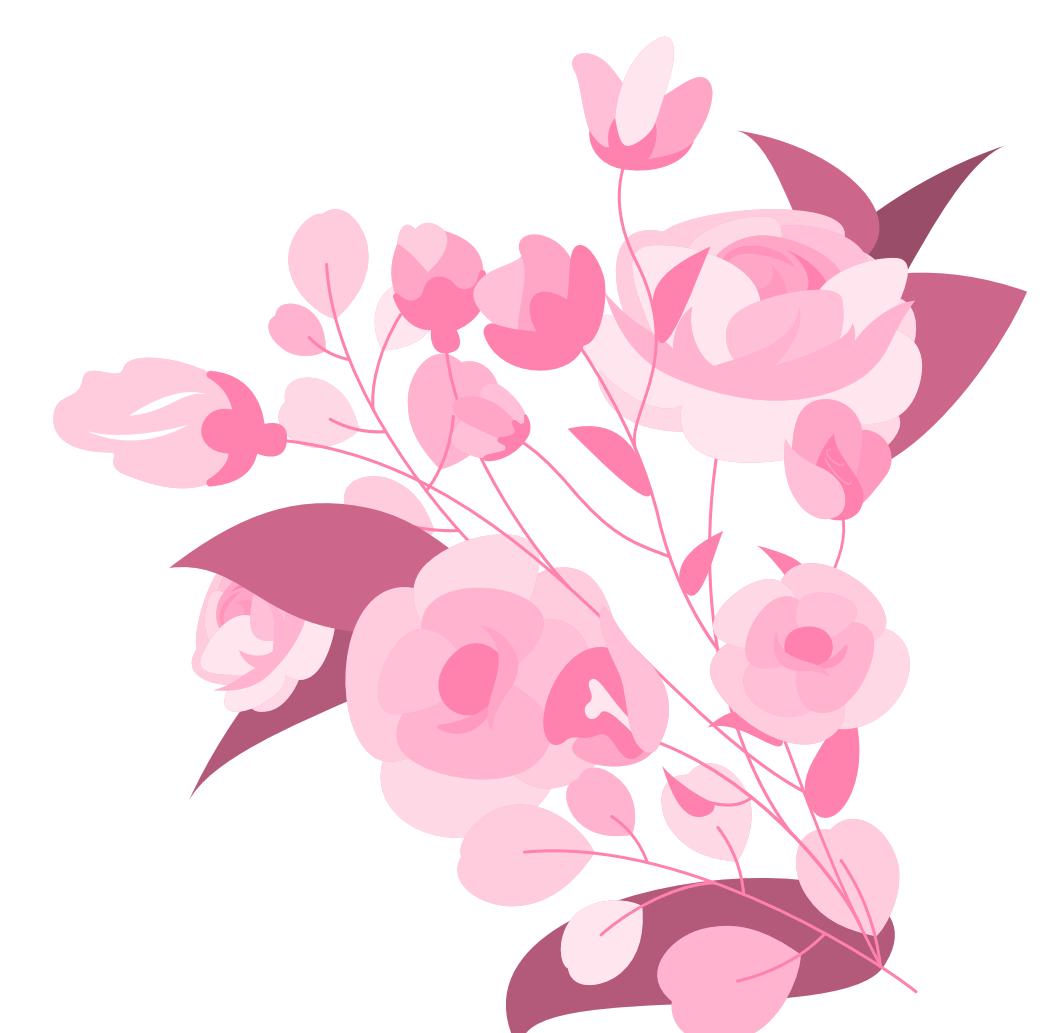
When I admitted in the year 2000, at that time we were learning something known as COBOL languages. You guys might not even know it right now. So it's a very changing technology. The whole world is computerized today, but technology and languages are changing very fast. So it is a dynamic field and the students need to be updated. So the computer branch is changing every six months with new technology, new platforms, new software, and everything. When we started, it was a very new branch. It had just started in 1998 or something. So when I took admission in 2000, it was like a new trend. And as we all try to find out if there is a new thing in the market, we are not sure about what will be the future of it. But still, I felt it was fascinating. So I felt that I should go and try it. So I took the admission, and it was a wonderful decision for me.

### How do you keep up to date with the latest trends and advancements in the field?

After every four years we have to change the syllabus and for changing the syllabus and to learn about the new technologies, we all do the certifications. Even to the students we ask to do certification compulsorily, which are new from NPTEL and Coursera. And hence, we also have to do the certifications. We are also trying to be with the industry about what's going on in the market so that we can teach our students what the current trends are. And even for the project and all, we seek the advice of the industry people in the advisory board. Also we do have industry people who contribute to your academics. So in this way we are coping with the syllabus as well as the current trends in technology with respect to computer science especially. So this is the way we are changing the academic syllabus. We are publishing the articles and everything and we are keeping ourselves up to date.

### Please suggest some CS platforms that you follow and that everyone should follows:

**NPTEL, Coursera and Swayam.** These certifications are doing a wonderful thing by giving you all the courses. Even professional communication related courses are available. So all types of courses are available on NPTEL. They are wonderfully drafted and delivered nicely. And that will be of great help to the students. They can learn at their own time, at their own pace. And I should suggest to everyone to follow a single scene where you can be a master. I mean, you should have one skill with you that could help you survive in the market. So just work it on it and surely it is going to help you in your future life.





## What do you advise girls who are pursuing engineering when it comes to facing changes in both their personal and professional lives?

Not to the girls, to every individual in any of the streams. Not in engineering You should pursue the things which you love to do. I mean, you have to focus on the skill You can go with that. And when you love certain things to do, when you are getting money from it, when you could able to do something new, if something fascinates you, in that case it will be easy for everyone After certain years you will quit. But if you really love to do certain things, I think everyone should choose skill to develop. And if you are perfect in that skill, so surely it will be not much difficult to balance because in personal life also you will be happy because you love to do that professional thing. when you start doing it, it will be easy. You'll be grown up to handle those things.

## Can you share your views on future CS education (what you feel are the best teaching learning practices) and career paths for women?

Everyone knows AI-ML, Robots and machine learning and artificial intelligence are a boon in the market right now and this is going to change everything. So any of these skills is going to surely help the students for the future trends. You can even be an entrepreneur.you can be an entrepreneur, you can start your startup rather than going for the job because IIT and other students preferably go to start the business where they can hire other people or other students. So nowadays startup is a good option. Rather I suggest you just have one or two years experience in another company and just get knowledge of how to get a client, how to get the project, how to crack the deal, how to close the deal and then you can start a startup. So I really suggest all of you if it is possible to just go for the start.

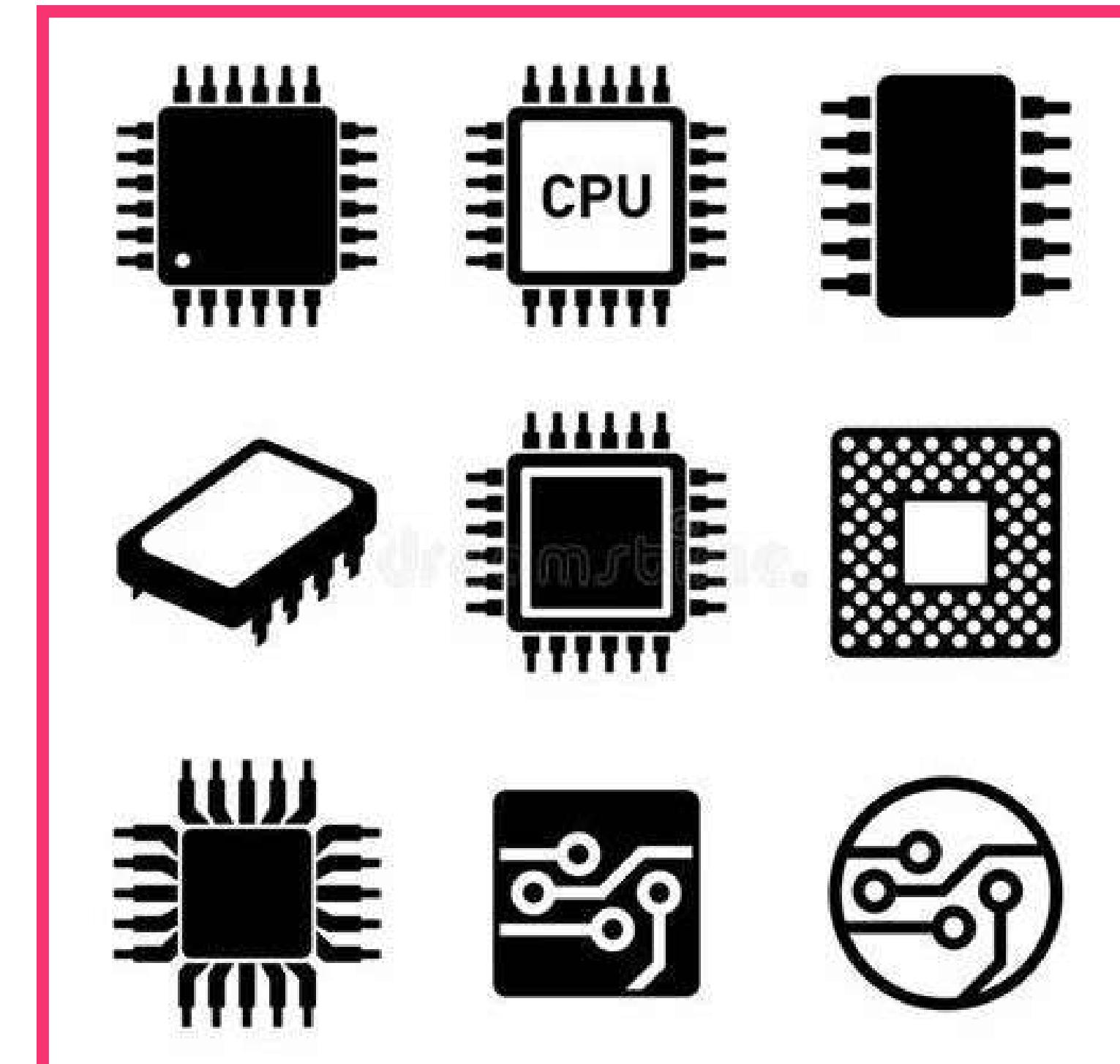
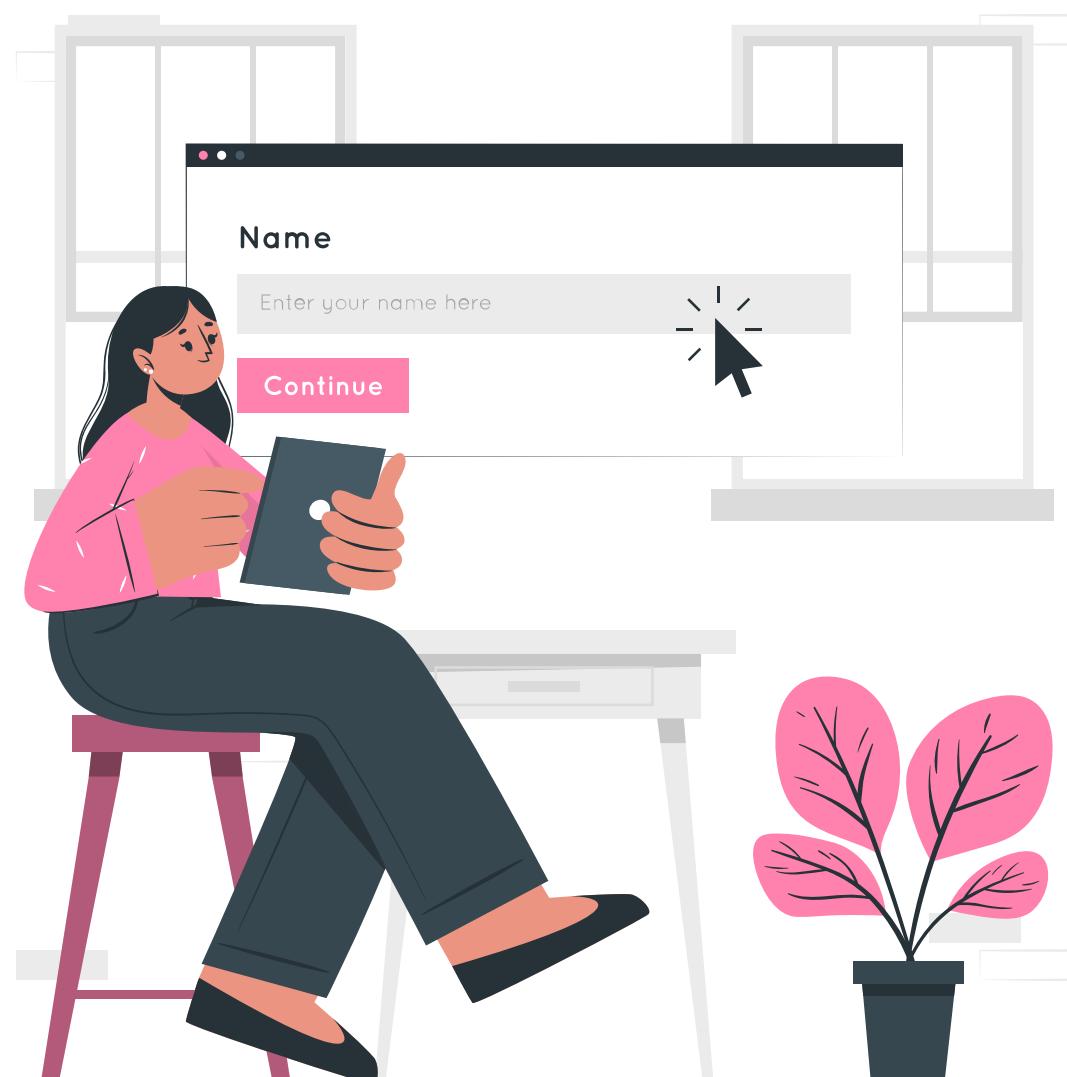
## What do you feel are the best teaching or learning practices?

The best teaching is when you have one to one connection. Like in a class, you should have a presentation. You should have certain supporting videos or any surveys which are supporting that. That will be wonderful. The teaching practices are where the teacher is making the student visualize things. You should be able to make it entertaining so that they will easily get those things. And the learning is what I told you before, getting a number of certifications and all. There are a number of learning platforms available. You guys are lucky. We have the internet and all the tools available. So basically if you want you can ask anything, at any time. 24X7. Just click on the internet and you can learn whatever you want. So learning is very easy. You only need the will to learn. You should have that desire to learn.

# MRS. VAISHALI G. POWAR

mail id : [powar.vaishali@kitcoek.in](mailto:powar.vaishali@kitcoek.in)

Prof. Vaishali has been contributing to the field of education for the last 15 years and has taught subjects like digital logic and microprocessor, computer organization, and architecture.





# MRS. SAPANA G. BUWA

Mail id : [buwa.sapana@kitcoek.in](mailto:buwa.sapana@kitcoek.in)



**Prof. Sapana has been contributing to the field of education for the last 9 years. She has taught subjects such as Discrete Mathematics Structure, Automata Theory, SP, Compiler Construction, Programming Paradigm, and C Language.**

## How has the field changed since you started in CS, and what was your inspiration?

I remembered that I started my study in CS in 1999. This field is changing drastically nowadays. Computer science is a fantastic field of study, formalizing as a college discipline in the '60s and evolving through the decades since to become part of daily life worldwide. In 2021, many latest technologies will emerge, particularly in computer science and engineering. The latest technologies like AI, Data Science, Robotics, **Cybersecurity, Bioinformatics, Full stack development, and Virtual reality** are only going to get better in 2021, and they may even make it into the hands of the average individual. My inspiration is my family, brothers, and sister.

## When teaching CS, what challenges did you face? What strategies do you use to overcome these challenges?

The computer science engineering course is a booming sector in India as well as in most other parts of the world. Technology is bringing about a sea change in how industries and organizations across the globe are operating. As there are a few challenges involved with this profession, I need to constantly update with new technology arriving in the market and knowledge. Lecturer-related challenges include subject knowledge, lack of time, approaches to teaching, dry(difficult to teach) topics, assessment, and lack of support. To

continuously pushed myself to overcome hurdles. Taking inspiration from positive-thinking people around me, such as family members, friends, colleagues, or mentors. Reading motivational books to boost my self-confidence and stay focused on my goals.

Lastly, I kept patience and a positive attitude.

## How do you balance your professional and personal life and what do you advise girls who are pursuing engineering when it comes to facing changes in both their personal and professional lives?

Truly saying that I am keeping my professional and personal life separate. I left my work-related job in its designated workspace. I have created time and space at home that is strictly for my personal life. I kept my personal space for reading, watching television, and sleep, and spending time with my family. Finding the right balance between your personal and professional life is essential for your well-being and success. It is down to you to better organize your time and make the necessary efforts to achieve this. I advised girls, especially those who are doing engineering that follows through with what they promise and understands the impact of their work on others. Gain respect by delivering on your commitments. Be confident in your ideas and thoughts, and believe in yourself. Be brave and keep going.

## How do you keep up to date with the latest trends and advancements in the field?

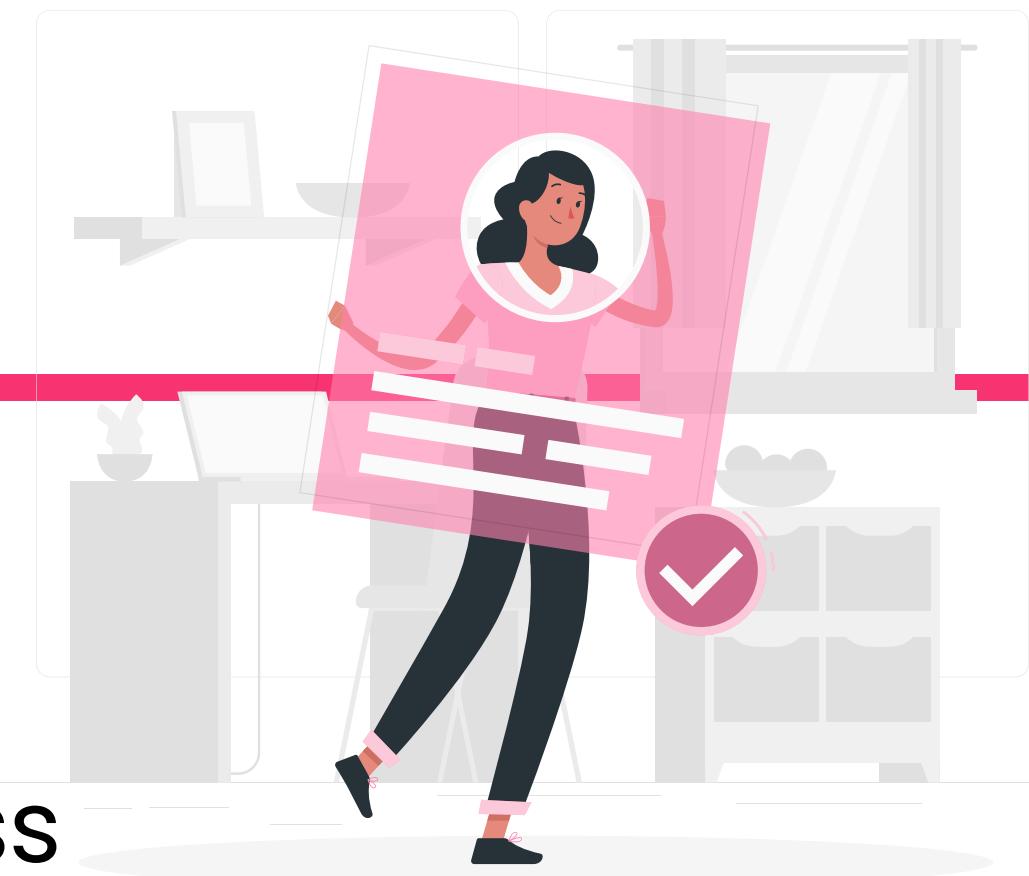
Regularly keep up with industry trade publications and websites; national,

regional, and city newspapers; influential bloggers and business thought leaders. Get involved in your industry. Join industry associations, attend their events, take training, and participate in online communities. Develop your skills with further study.

## Please suggest some CS platforms that you follow and that everyone should follow.

Finding the right online resources can be critical to your success in the computer science field. There is an enormous increase of vigorous competition in every industry ranging from finance, and engineering to technology. Getting a Certification course helps a student add a prestigious credential to the resume and stand ahead of others. It helps enrich their expertise and talent, and enrolling yourself in a certified course helps in getting access to high-quality modules, syllabus, and study materials. Authentic certified programs, conduct periodic examinations and test your aptitude and technical know-how regarding the subject. The guidance of knowledgeable facilitators and tutors helps in enhancing your competence and proficiency. Most importantly, these courses help in sharpening and polishing technical skills and fundamentals. Various platforms provide courses for students to gain exposure and learn in-depth concepts. Computer science-certified courses are available for computer science students to gain subjective knowledge and practical experience through projects and worksheets. Various platforms which provide these courses are as follows:

Udemy, Coursera, Codecademy, NPTEL, W3Schools, NPTEL, W3Schools



**Can you share your views on future CS education (what you feel are the best teaching learning practices) and career paths for women?**

With the fast-changing connected world, computer science is a key area for future careers across the world. The term computing covers every kind of digital technology that we use to create, store, communicate, exchange, and use information. This makes it the foundation for small and large businesses to build their strategies and grow. It is also the key to making our personal lives easier and more fun: mobile phones, online shopping, and social media – we owe them all and a lot more to computer science. I think the best teaching-learning practice is to Engage, motivate, and inspire students with today's best practices. I think there are more career choices available to women now than ever before. A woman plays many roles—sister, daughter, friend, wife, mother, confidante, breadwinner, and so on. You, being a multitasking woman, need to find a career that not only pays you well but allows you to be a career woman without having to compromise on any of these roles.

Lots of women have found careers that balance beautifully with their family life. With a plethora of options, you may have a tough time deciding which career would be most suitable for you. Of course, no two women are the same and neither are their choices. But some careers provide women with the best opportunity to achieve both career success and work-life balance. Here are the top eight career choices for women:

- 1. Entrepreneurship
- 2. IT
- 3. Medicine/Healthcare
- 4. Teaching
- 5. Career Counseling
- 6. Interior Design
- 7. Nutrition / Fitness
- 8. Fashion Design & Merchandising



## MRS. MADHURI V. THORWAT

Mail id : [thorwat.Madhuri@gmail.com](mailto:thorwat.Madhuri@gmail.com)

Prof. Madhuri has been contributing to the field of education for the last 7 years and has expertise in C, C++ and Operating Systems, with one year of experience in the industry of Salesforce Cloud computing platform.

**How has the field changed since you started in CS, and what was your inspiration?**

Lots of changes.the field of CS changes so rapidly that in any other field..to stay in CS needs to adapt always new things.family, brothers, and sisters.

**When teaching CS, what challenges did you face? What strategies do you use to overcome these challenges?**

The Challenge is to teach a subject bound to the syllabus.It requires more exploring subjects as per industry demand.

**How do you balance your professional and personal life and what do you advise girls who are pursuing engineering when it comes to facing changes in both their personal and professional lives?**

The best advice from my side is...be emotionally so strong such that any situation doesn't change your aim..it is always clear what you want in your life..and that decision is yours only not by others.

**How do you keep up to date with the latest trends and advancements in the field?**

With joining the latest FDP, STTP and special training sessions. Using online platforms.

**Please suggest some CS platforms that you follow and that everyone should follow.**

Udemy  
scala  
nptel  
cousera  
Geeks for Geeks

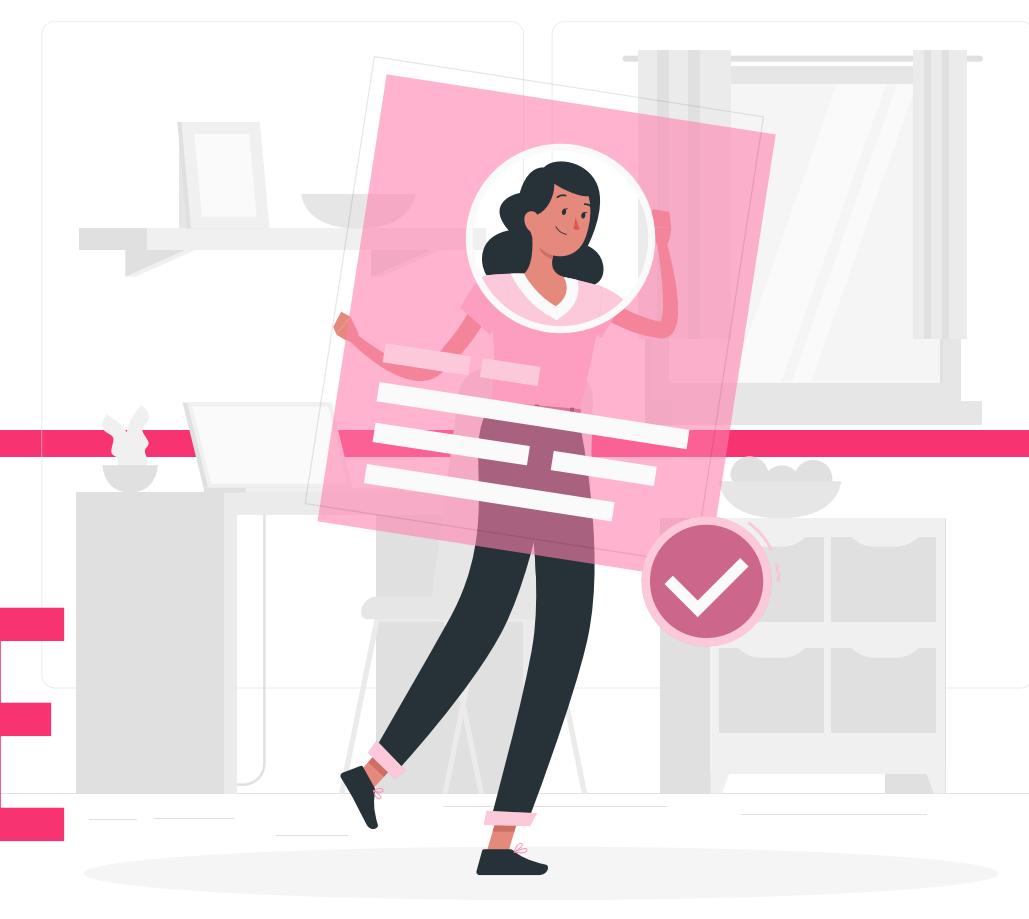
**Can you share your views on future CS education (what you feel are the best teaching learning practices) and career paths for women?**

The Challenge is to teach a subject bound to the syllabus It requires more exploring subjects as per industry demand.



# MRS. BHAGYASHREE A. UDAGAVE

Mail id : [udagave.bhagyashree@kitcoek.in](mailto:udagave.bhagyashree@kitcoek.in)



**Prof. Bhagyashree has been contributing to the field of education for the last 6 years, and has taught subjects such as Machine Learning, Python, C, C++ programming, Operating Systems, Computer Networks, Computer Security, System Programming and Visual Basic (VB).**

## How has the field changed since you started in CS, and what was your inspiration?

The field of computer science is changing dramatically. It is becoming increasingly important as the economy becomes more dependent on computers and the Internet. We started with RAM in MB for a desktop machine which now has a capacity of GB. Computer hardware and software technology are rapidly increasing in power and sophistication. Because the changes are happening so quickly, it can be difficult to predict where the field of computer science will go over the next 10 to 20 years. I was motivated purely by curiosity and frankly speaking because of the craze of getting high packages(:).

## When teaching CS, what challenges did you face? What strategies do you use to overcome these challenges?

As I said, the field is changing dramatically, so it needs to be updated and more aware. Computer Science is seen as an area of instruction that demands complex conceptual knowledge and is highly technical and practical. Computer Science subjects such as programming, database development, and artificial intelligence (AI), are challenging to both the instructor and the learner because learners are expected to improve a range of both theoretical and practical skills. To overcome these challenges.

I used to take training on different new subjects. It may be through faculty development programs, workshops, and making use of some online platforms.

## How do you balance your professional and personal life and what do you advise girls who are pursuing engineering when it comes to facing changes in both their personal and professional lives?

I always think about the best way to achieve balance at work and in my personal life. It's needed to maintain the flexibility to get things done in professional life while still having time and energy to enjoy your personal life. I would like to advise girls, **don't try to be perfect rather stay realistic**. Some days, you might focus more on work, while other days you might have more time and energy to pursue your hobbies or spend time with your loved ones. Balance is achieved over time, not each day.

## How do you keep up to date with the latest trends and advancements in the field?

One of the more traditional ways of keeping up with technology is by reading the technology sections in major news outlets. Attending technical events like conferences gives you a chance to deep-dive into the latest developments in the tech sector. Reading **technical blogs**, and **joining technical communities** are ways to stay updated with trends in the field.

## Please suggest some CS platforms that you follow and that everyone should follow.

Online platforms like GitHub, Moodle, Udemy, Coursera I used to follow. YouTube is also there but you must be time specific with it.

## Can you share your views on future CS education (what you feel are the best teaching learning practices) and career paths for women?

The project-based learning approach is a powerful and engaging teaching strategy. Taking brainstorming sessions to solve problems will help to develop higher-order thinking skills, allowing students to experiment with the topic. These are some best teaching and learning practices from my point of view. According to the **American Association of University Women**, computer science has one of the smallest pay gaps between male and female professionals, with women earning **94%** of what men earn. A woman can work as a CS tutor, Software Developer, Web Developer, Mobile App Developer, IT Project Manager, Systems Architect, or AI Engineer.





# MRS. CHHAYADEVI H. KHAMBALKAR

Mail id : khambalkar.chhayadevi@kitcoek.in

Prof. Chhayadevi has been contributing to the field of education for the last 12 years. She has taught subjects like Data Structures, DBMS, Data Mining, Computer Graphics & Virtual Reality, Java, Advanced Java, C, C++, Python, Automata Theory, and Compiler Construction.



## How has the field changed since you started in CS, and what was your inspiration?

It has been a long time, since the internet came into our lives, and since then, the world is changing continuously with the evolution of technology. Technology is constantly making our lives easy and better in every aspect, and with the increasing population, the demand for technological industries and experts is also at its peak. My parents inspired me in my life. They faced so many problems in life but they never give up and did hard work for us. They are the only ones who always supported and motivates me to achieve my goal.

## When teaching CS, what challenges did you face? What strategies do you use to overcome these challenges?

Teaching B.Tech computer science is not the same now as it was before. The curriculum and education related to computer science engineering have been updated as per the latest technologies and trends. Although there are many engineers out there, that are experts

in particular fields of engineering, there are some required knowledge and skills, that made computer science engineers different from others.

**How do you balance your professional and personal life and what do you advise girls who are pursuing engineering when it comes to facing changes in both their personal and professional lives?**

- 1) Organising your day and making a schedule for yourself will help in having a stress-free day. Find a balance between our personal and professional lives
- 2) Manage your time
- 3) **Priorities** your work
- 4) Create a schedule and **stick** to it

## How do you keep up to date with the latest trends and advancements in the field?

I Regularly keep up with industry trade publications and websites; national, regional, and city newspapers; influential bloggers and business leaders. I get involved in the industry. Join industry associations, attend their events, take training, and participate in online communities.

## Please suggest some CS platforms that you follow and that everyone should follow.

Data Science  
AIML  
Web development

## Can you share your views on future CS education (what you feel are the best teaching learning practices) and career paths for women?

Recent developments show that technology will play a vital role in the future of education. With online learning entering the mainstream, we are already seeing the trends where technology is all set to make major changes in the education industry. Be it artificial intelligence-based assessment tools like PrepAI or technologies like AR/ VR in classrooms, the concept of learning is changing and evolving into something new and potentially better.

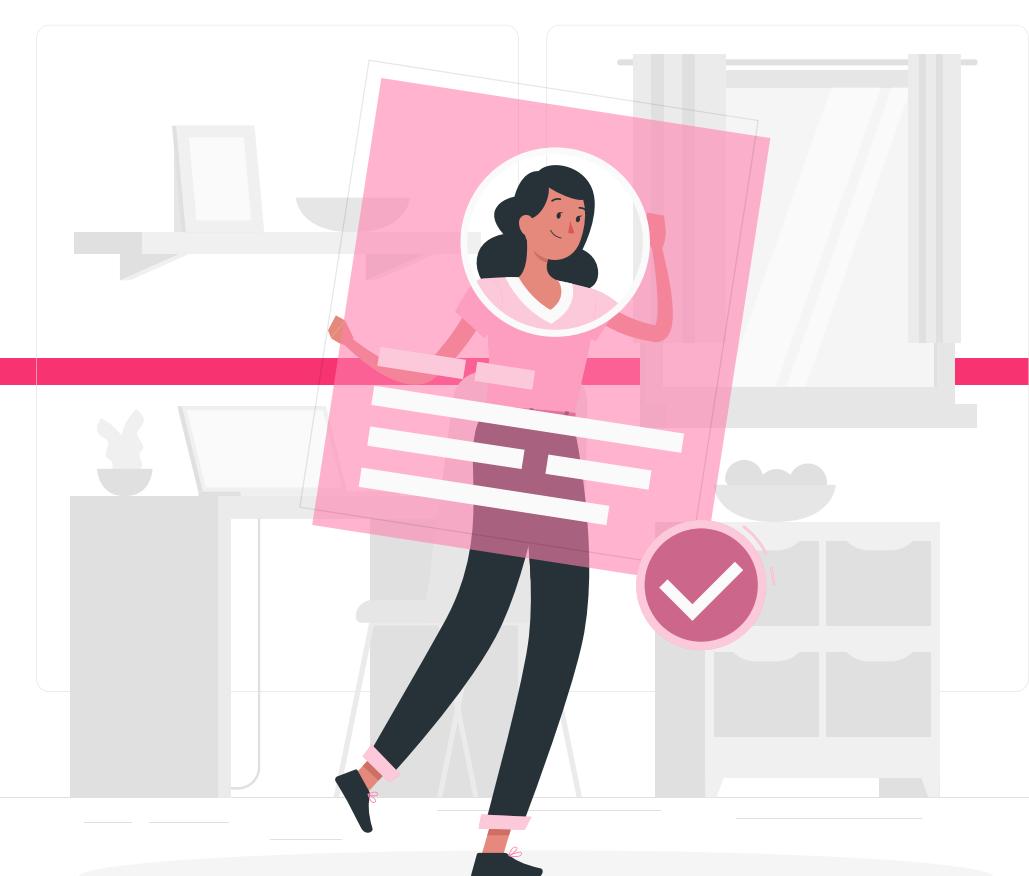
The career paths for women are project manager, quality assurance tester, and business analyst. Women also pursue careers as data scientists.





## MRS. MRUNMAYEE M. BACHATE

Mail id : [bachate.mrunmayee@kitcoek.in](mailto:bachate.mrunmayee@kitcoek.in)



**Prof. Mrunmayee has been contributing to the field of education for the last 6 months, teaching subjects such as IoT and Python.**

**How has the field changed since you started in CS, and what was your inspiration?**

CS was so trending during my college days

**When teaching CS, what challenges did you face? What strategies do you use to overcome these challenges?**

To learn new trends with managing your work.

**How do you balance your professional and personal life and what do you advise girls who are pursuing engineering when it comes to facing changes in both their personal and professional lives?**

not that tough at all if you pre-plan accordingly. And get help from family

members. believe in yourself. Be brave and keep going.

**Please suggest some CS platforms that you follow and that everyone should follow.**

It totally depends on personal interest.

**How do you keep up to date with the latest trends and advancements in the field?**

**Learning is the only key.**



## MRS. MEGHANA V. BANDIWADEKAR

Mail id : [bandiwadekar.meghana@kitcoek.in](mailto:bandiwadekar.meghana@kitcoek.in)

**Prof. Meghana has been contributing to the field of education for the last 5 years, teaching C and Python programming, software engineering, and advanced database management.**

**When teaching CS, what challenges did you face? What strategies do you use to overcome these challenges?**

In teaching first, understanding the student's minds and what the students are expected for a particular subject is important and this is challenging.

**How do you balance your professional and personal life and what do you advise girls who are pursuing engineering when it comes to facing changes in both their personal and professional lives?**

Actually is not easy to **balance** your professional and personal life but If you are happy and satisfied with your work and personal things then you automatically balance.

**How do you keep up to date with the latest trends and advancements in the field?**

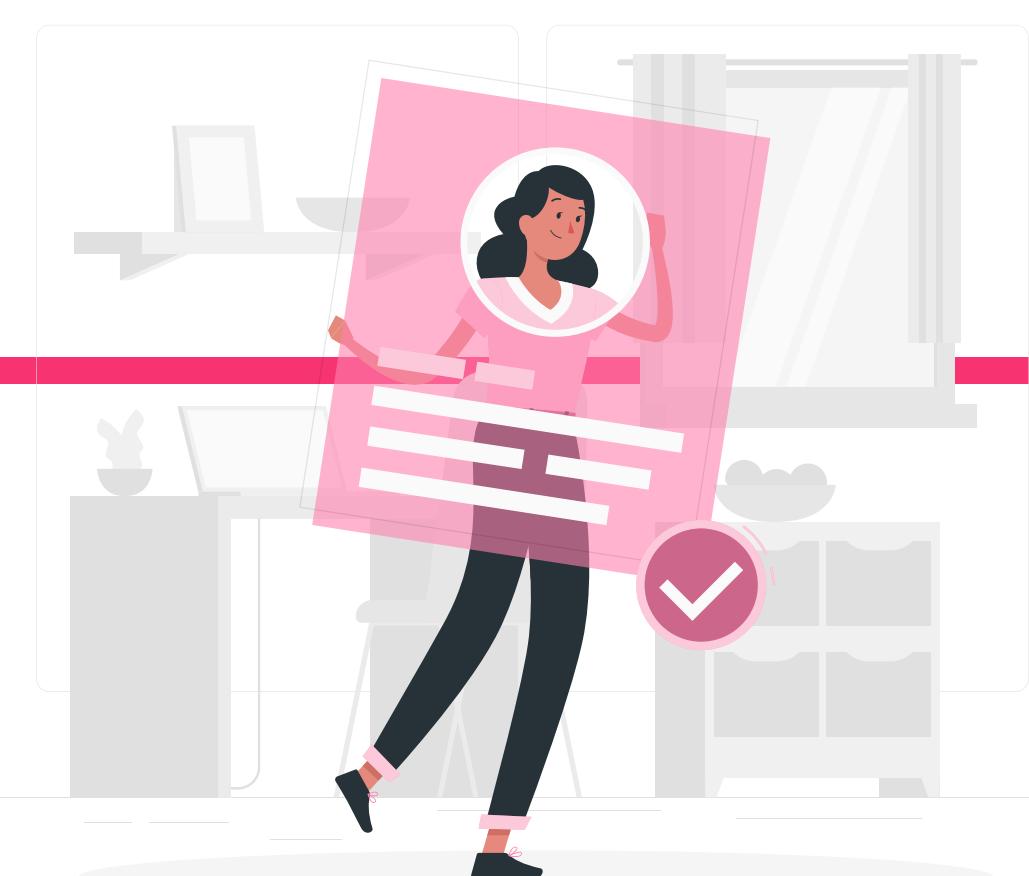
Nowadays it is important to be always up to date with the latest trends

Always search for new technologies that's improving **professionalism**. Communication with people, visiting new places, and the company are important to Learn new and advanced techniques.

**Can you share your views on future CS education (what you feel are the best teaching learning practices) and career paths for women?**

CS education is always good for everyone. There are new technologies and new challenges that are improving professional development.





### Message from Prof. Archana

My humble say to all my dear student friends,  
If you are thinking only computer engineering students can code then you are wrong!  
As it is a trending field; huge competition is there in the market.  
Besides engineering students, Commerce students are also playing a big role against CS engineers.  
Employers are hiring only specialized CS engineers and intelligent people. Tech companies like Apple, Google, Facebook, Microsoft, IBM, and Samsung are spending too much on research in m/c learning, augmented reality, virtual reality, deep learning, data mining, block chaining, and cyber security. Get refreshed, Set the Goal, Invest your time, and achieve your goal.  
Every Human is Self super-powered.  
Believe in yourself.  
All the very Best.

### Message from Prof. Dipali

On the occasion of women's day I would like to say " Today's girls with ambition are tomorrow's women with perception" - Happy Women's Day

### Message from Prof. Shivani

I just want to tell all the students that your parents are spending for you and they have dreams for you. So you should make your parents feel proud. Just try to make it out, set the goal and just trigger for it and just get it. That's the only thing I want to tell every student. I just want everyone to make their parents feel proud and when you are making it your whole life is going to be beautiful.

### Message from Prof. Ranjeeta

Aim to keep your standards high and have a clear mindset. Today's generation should not lose their focus while achieving their aims and goals.

### Message from Prof. Madhuri

Always listen to your inner voice of you and do accordingly.

### Message from Prof. Bhagyashree

I just want to advise based on some experience and the occasion of this woman's day, to help push yourself to be the best: Achieving career success is not easy. Stick to your values that create the most authentic groundwork and purposeful life. Never stop learning, and celebrate your successes-no matter how small or big it is. Just remember, you are a great person regardless of where you are on your career ladder.

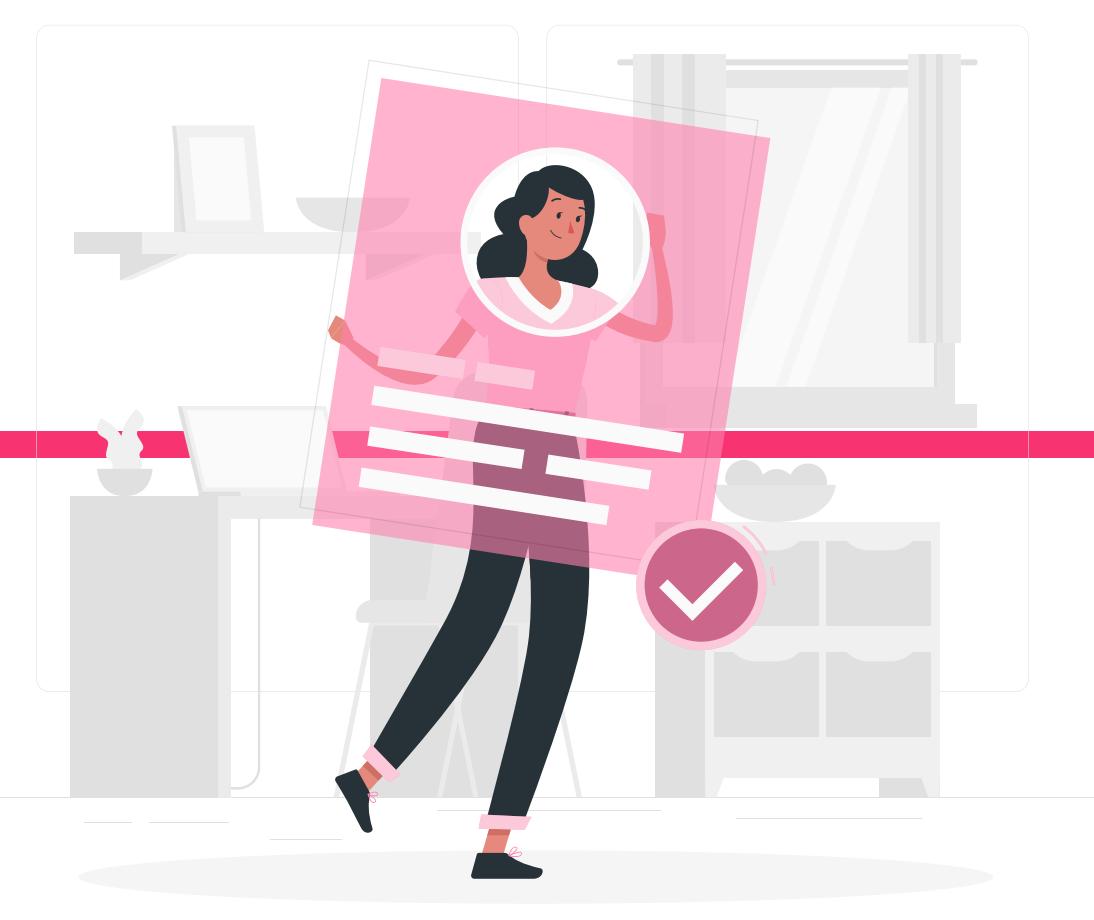
### Message from Prof. Meghana

Always think of the positive that helps to achieve your goals.

### Message from Prof. Sapana

The global economy will resurface in 2021, and new technologies will very definitely be the catalyst. In the following years, the top technological developments stated above are expected to take over our daily life. Jobs in these technologies and the abilities linked with them will be incredibly valuable, and getting an education in these fields will undoubtedly benefit you in the long run. In 2021, selecting and mastering the appropriate new technology will make you future-proof. Students can boost their job prospects by researching the latest technologies in computer science or IT trends. They can study information security, machine learning, and bioinformatics as concentrations or electives. For students interested in a specific area of education, several colleges even offer complete degrees in artificial intelligence, cybersecurity, and robotics.

# TECHNO-SCIENTISTS



## Frances E. Allen

Frances E. Allen was a pioneering computer scientist who made significant contributions to the field of optimizing compilers. Her most famous work was on the development of the Program Optimization and Test (PO/T) software for the IBM Stretch and Harvest computers, which helped to improve the performance of compilers and other software systems. In 2006, she became the first woman to receive the Turing Award for her work in optimizing compilers.

## Radia Joy Perlman



She is an American computer programmer and network engineer. She is a major figure in assembling the networks and technology. She is most famous for her invention of the spanning-tree protocol (STP), which is fundamental to the operation of network bridges, while working for Digital Equipment Corporation, thus earning her nickname "Mother of the Internet".

## Jennifer Widom



She is an American computer scientist known for her work in database systems and data management. She is notable for foundational contributions to semi-structured data management and data stream management systems. Since 2017, Widom is the dean of the School of Engineering and professor of computer science at Stanford University. Her honors include the Fletcher Jones Professor of CS and multiple lifetime achievement awards from the Association for Computing Machinery.

## Vera Turán Sós



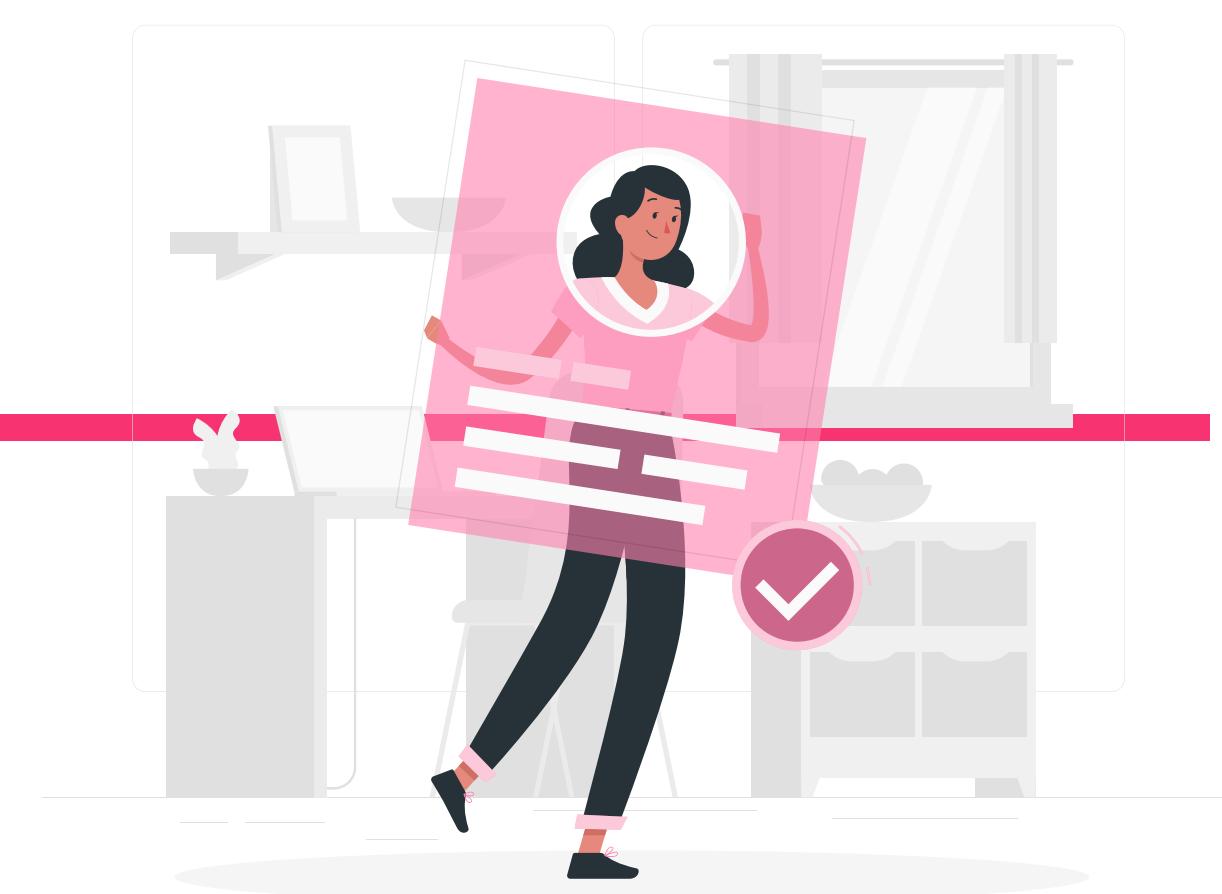
Dr. Sós is a Hungarian mathematician who has made important contributions to many areas of mathematics, including number theory, graph theory, and combinatorics. She has published over 100 research papers and has been recognized with numerous awards and honors throughout her career. Some of the awards and honors that Dr. Sós has received for her contributions to mathematics include: The Balzan Prize in Mathematics in 2012, The Abel Prize, often referred to as the "Nobel Prize of Mathematics," in 2021, The European Prize in Combinatorics in 1992.



## Fei-Fei Li

She is a computer scientist and AI expert who is known for her work in computer vision and deep learning. She has received numerous awards and honors, including the IEEE Computer Society's Technical Achievement Award and the Mark Everingham Prize from the European Conference on Computer Vision.

# TECHNO-GIRLS



## PLACEMENT A.Y. 21-22

Company Name(21-22)	Placed Girl Count
Adobe Systems	1
BNY Melon	1
Capgemini,Pune	13
Adani Group	3
Netcracker	3
Byjus	1
Persistent Systems	10
Tieto EVRY	1
Hexaware Technologies	4
Agiliad	2
Zensar	2
Mindtree	1
BirlaSoft	1
Infosys Pvt. Ltd. Pune	3
Wipro Systems	19
SLK Software, Bangalore	3
TCS Ltd., Pune	15
Tech Mahindra	1
Kale Logistics	1
Extrapreneur India Pvt. Ltd.	7
Thinqloud Solutions Pvt. Ltd.	3

## PLACEMENT A.Y. 22-23

Company Name(22-23)	Placed Girl Count
HSBC	6
Wynum	2
TCS	10
Knorr Bremse	5
DXC	36
Hexaware	7
Hoonartek	5
Selfmade Softwares	2
Quest Global	6
Jibe	5

# TECHNOSITES



**Technosites KITCoEK**

Department of Computer Science & Engineering

