



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
RAJKUMAR GOEL INSTITUTE OF TECHNOLOGY  
5 KM STONE, DELHI MEERUT ROAD, GHAZIABAD



**BYTES**  
NOT JUST ONES  
AND ZEROS

# BYTES

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## MISSION

To provide quality education in both theoretical and applied foundations of Computer Science and train students to effectively apply this education to solve real world problems.

To amplify their potential for lifelong high-quality careers and give them a competitive advantage in the challenging global work environment

## VISION

To be recognised globally for delivering high quality education in the ever changing field of Computer Science and Engineering, both of value & relevance to the communities we serve.

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# EMINENT PERSONALITY



**"The answers to your questions lie within-you just have to be courageous enough to do, what it takes to live your dreams"**

## Dr Trinetra Haldar Gummaraju



Recently featured in “The Forbes 30 Under 30 Asia List 2022,” for her exceptional personality and endeavours, Dr Trinetra Haldar Gummaraju better known as trin-trin is an openly-transgender doctor, activist, artist and content

creator. She is the Karnataka’s first trans woman doctor and she uses her platform to disseminate information on topics like gender, sexuality, queerphobia, bullying, mental health and feminism.

Trinetra has a strong social media presence, having more than 200k followers on her Instagram and generous subscribers on her YouTube channel “The Trinetra Method” which abounds with information related to mental health, gender confirmation surgery and other tools of aid and resources for those seeking help. By sharing her journey, she also deals with social issues that young people face—such as body image issues—and promotes body positivity among her audience.

She was born as Angad Gummaraju to Bengaluru-based parents and always struggled being a woman in a man’s body. She was called names and derogatory titles since childhood but overcoming all struggles, she fought and stood up for herself.

She was called names and derogatory titles since childhood but overcoming all struggles, she fought and stood up for herself. And eventually got admission at a private medical college where she found herself on the path of self-discovery. Being titled as 'Doctor' has indeed helped her to shut many mouths as she has braved the regressive commentary and successfully started a conversation on how India needs to change its gaze towards the transgender community. Trinetra has come a long way to find her identity and create such an aura that would make the whole world bow.

Having been named on the Forbes 30 Under 30 List, 2022 and the GQ 30 Most Influential Young Indians List twice in a row among several other accolades, she is a well known content creator and a TEDx speaker. She is also an actress, and will make her acting debut in the upcoming second season of the breakout Amazon Prime web series "Made In Heaven" created by Zoya Akhtar and Reema Kagti.

Dr Trinetra has always been extremely vocal about about the various issues and discrimination she faces in society. Her videos, some informative, and some just witty, give us a glimpse into her life. Her honest and take-it-with-a-pinch-of-salt approach is what sets her apart and makes her account a safe space for people.

"We must be visible and assert ourselves, because we are very

actively erased from the mainstream, very actively removed from conversations, There is a lot of structural and legal inequality that still needs to be addressed.” Said Trinetra in an interview with the Quint.



Trinetra has been a great inspiration for the people of Internet as amidst hate and misinformation on social media, Trinetra is a voice of reason, comforting people with knowledge and hope. Having undergone a tumultuous journey herself, her advocacy and activism aim to make people learn, unlearn and relearn and ultimately do better for marginalised communities.



# TECH BYTES



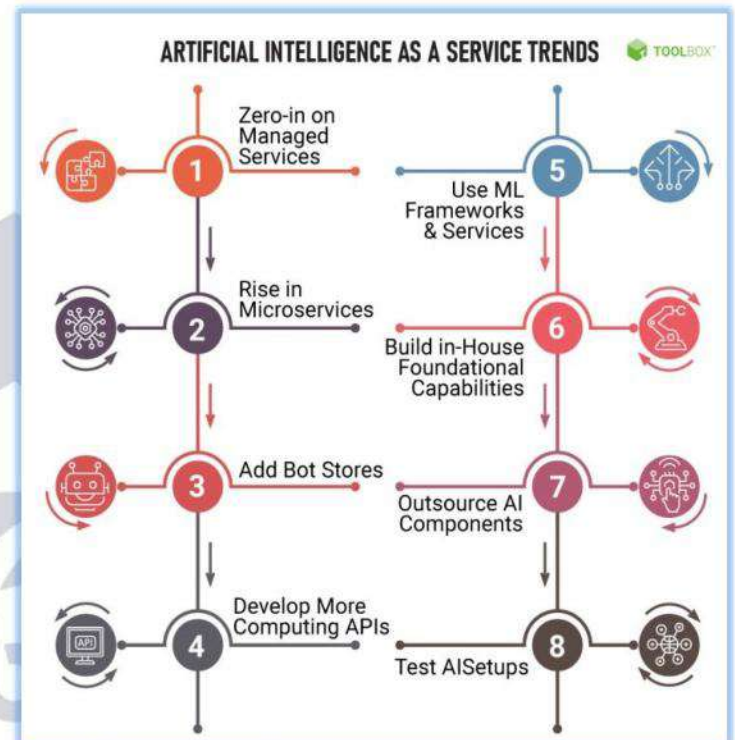
**"The best way to predict the future... is to invent it"**

## Artificial Intelligence as a Service (AlaaS)

### What is AI as a Service ?

AI as a Service (or AlaaS) refers to the outsourcing of out-of-the box AI solutions or tools to companies as a service, allowing them to effectively put these services into production and manage their operation. AlaaS is ready-made AI tools offered by third party vendors through off-the-shelf solutions to

companies that are looking to implement AI solutions to their operations but without having to invest in expensive infrastructure or worrying about new hires. These so-called AI solutions expose AI to a wider range of businesses, including small businesses. Companies willing to invest in new digital technologies can now leverage the power of AI to create smarter products, intelligent services and enhanced business processes, without spending a huge sum. Yet, AI solutions are not meant for every business out there.



### Difference between AlaaS and AI

– AI is the simulation of human intelligence in machines that are programmed to do tasks that are typically done by humans.

AI is the demonstration of human-like intelligence in machines or anything that is controlled by a computer, allowing them to perform tasks with little or no human intervention. AlaaS, on the other hand, is a third-party offering of AI solutions and tools in order to expose AI to a wider range of businesses looking for new opportunities in the digital space.

– AI is both a product and a service that largely makes use of the algorithms based on a set of pre-defined rules that a computer can follow to accomplish tasks and solve problems. AI is a collection of methods, tools and concepts to make machines smarter and autonomous. AlaaS, on the other hand, is an off-the-shelf AI service where you tap into third-party AI tools and technologies without having to invest a heavy sum in setting up a new infrastructure.



### Benefits of AlaaS

Scalability

Usability

Flexibility

Lower cost

### Challenges of AlaaS

Data governance

Lack of transparency

Reliance

Security

# TECH NEWS



**“Our Future success is directly proportional to our ability to understand, adopt and integrate new technology into our work”**

## Samsung Galaxy A04e launched

Galaxy A04e carry forward the A series legacy with segment-leading features like 8GB memory with RAM Plus, high storage of up to 128GB, a massive 5000mAh battery and Face Recognition to unlock your phone.



## Google announced new India-first features

The company announced new features to help make the internet more accessible for Indians. The tech giant spoke about its use of AI, better safety features in Google Pay, and the ability to integrate the Files app with the Digilocker service created by the government.



## LAVA launches X3

Powered by Android 12 Go, the smartphone features a 16.55cm (6.5 inches) display and MediaTek Helio A22 chipset with a clock speed of up to 2.0 GHz.



## iPhone 15 rumoured to be priced at \$1299.

According to the leaks by LeaksApplePro, the iPhone 15 Ultra's price has been revealed to be 1299\$, the most expensive iPhone ever! The naming system for upcoming iPhones may be changed and according to reports, the Apple Pro Max Model will be renamed and simply called iPhone Ultra.



# EVENTS



**"All events are just like show that has an end.  
Nothing remains forever,except the memories,  
bitter or sweet, or both"**

## Navjyoti



A good poem is a contribution to reality. The world is never the same once a good poem has been added to it. A good poem helps to change the shape of the universe, helps to extend everyone's knowledge of himself and the world around him. and real life is messy, and drama is a shaped version of real life.

With these two famous sayings about Poems and skits, the Computer Science Students Society (CSSS) of the Computer Science and Engineering Department, Raj Kumar Goel Institute of Technology, Ghaziabad organized a cultural event "Navjyoti" - A competition of Poem and Skits on 16th September 2022 in Seminar

Hall - D block RKGIT.

Registrations for the event started on 6th September 2022 and ended on 13th September 2022. Students from different years participated in the competition and showcased their talents in Poems and skits.

Overall, the event was very successful and ended up with the Prize distribution ceremony of winners. For the smooth conduction of the event, all credit goes to CSSS Coordinator Ms. Vernika Singh, Faculty Coordinators Mrs. Shalini Kushwaha and Ms. Neha Gupta and all the Student coordinators.





## BLANK CODING “ Code a better Future”

Raj Kumar Goel Institute Of Technology  
5th K.M. STONE, DELHI-MEERUT ROAD, GHAZIABAD-(U.P.) 201003

From the Department of  
Computer Science & Engineering

**CSSS** Computer Science  
Students Society  
Presents

**BLANK  
CODING**

"CODE A BETTER FUTURE"  
An Offline coding competition

12 Oct, 2022 || 3 to 5 PM  
Labs 1 & 2, A Block, RKGIT

Registration Ends:  
11 October, 2022

Languages:  
C | C++ | Python | Java

TO REGISTER  
SCAN QR

CSSS Coordinator:  
Ms. Vernika Singh

For Any Query, Contact:  
Shantanu Yadav  
+91 945 159 7019

Faculty Coordinators:  
Mr. Vineet Srivastava  
Ms. Rinki Tyagi

@csss\_rkgitofficial

"Coding is Today's Language of creativity. All our Children deserve a chance to become creators instead consumers of Computer Science" with this quote by Maria Klawe , The Computer Science Students Society (CSSS) of the CSE Department, RKGIT organized an offline coding competition "Blank Coding" on 12th October 2022 in Lab 1 and 2 - A block, RKGIT between 3:00 to 5:00 PM.

Registrations for the event ended on 11th October 2022 and students from different years participated in it and showcased their coding knowledge as stated it was an offline competition, so students were given questions on the spot and they have to solve the question in the given time. Students were allowed to use C, C++, Python or Java to solve the question



The event was a success all thanks to CSSS coordinator Ms. Vernika Singh, Faculty coordinators Mr. Vineet Srivastava and Ms. Rinki Tyagi, and all the student coordinators. The event concluded with the Prize Distribution ceremony of the Winners.

# UPCOMING EVENTS



**"Participation gives you experience to upgrade your qualities, qualities makes you perfect to enhance your stardom"**

## **NASSCOM-DSCI Annual Information Security Summit 2022**

Nasscom DSCI Information Security Summit has the privilege of being touted as a truly Industry led Cyber Security conference which considers the breadth as well as the depth of the Cyber Security ecosystem of the country and beyond. The summit will draw upon the expertise, experience, and curiosity of thought leaders, trailblazers, influencers, practitioners, enthusiasts, knowledge seekers, and contributors from across the board.

The seventeenth edition of the Annual Information Security Summit(AISS) is slated to happen in physical mode on December 20, 21 & 22, 2022. Over the past sixteen years, AISS has witnessed increasingly compelling, relevant and futuristic content that gets shaped by multiple factors and contexts and has endeavoured to cover the entire spectrum of Cyber Security & Data Protection. The contribution of the industry has been immense and continues to shape its journey.

Amidst the rapidly changing business and technology landscape and highly volatile cyberspace, it becomes important to stay current on the present context and anticipate the challenges in the offing. AISS agenda is typically characterized by presence of a diverse set of themes, sub themes, topics and sub-topics, multiple tracks, varied session formats and plethora of activities and experiences that make up for a rich three-day engagement and learning for the delegates.

# ACHIEVEMENTS



**"The level of our achievements is limited only by our imagination and no act of kindness, however small, is ever wasted."**

**Chirag Singhal, 3<sup>rd</sup> year has secured 1<sup>st</sup> position in “Black Coding” an coding contest organized by CSS , the technical society of CSE Dept.,RKGIT.**



# FACULTY CORNER



**"If you are planning for a year, sow rice;  
if you are planning for a decade, plant trees;  
if you are planning for a lifetime, educate people"**

## RainLove

The Anklets you wear at your feet,  
Where all the seasons gladly meet.  
I can hear and feel it till the eternity,  
till my last breathe.

The melody it preserves in its arms,  
all for goodwill do no harms.  
sound at rooftop and at vibrant floor,  
have the musical resonance,  
owns all the notes in its core.

waves of joy drifting through my curious mind,  
let it flourish humbly, let it pleasant and kind.

BY

TARACHAND VERMA

ASSISTANT PROFESSOR

# STUDENT'S CORNER



**"You can't use up creativity.  
The more you use, the more you have"**



**Thinking about that first time,  
The nervousness and planning behind,  
The fear of not performing fine,  
But in turn tasted fine wine**

**Neither firsts nor seconds  
The matter handled with sheer essence Shaking and  
shivering, overwhelming Applauding skills of mere  
helming**

**This boat has finally set sail  
Water, wine, thirds are frail  
Enjoying the company, par excellence  
One is made for all, no offence**

**Planning was fruitful  
Eating an icecream one scoop full  
That first time, wasn't a race  
And yet it filled all void and space.**

**- Vinamra Gupta  
3<sup>rd</sup> year, Section-B**



- Vinamra Gupta  
3<sup>rd</sup> Year, Section-D

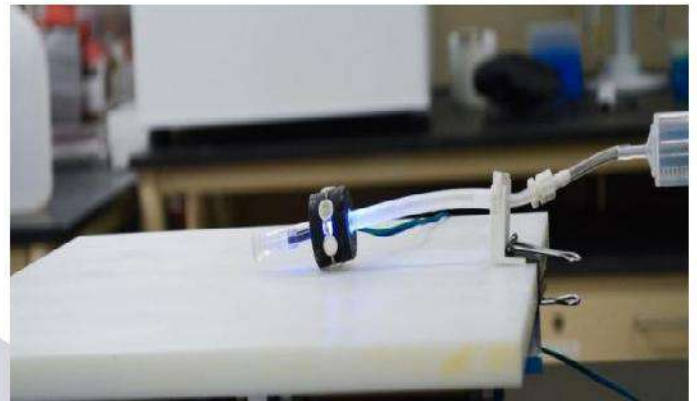
# ARE U MISSING WHAT'S NEW



**"Technology unlocks a chance to connect everything together in a new way & is dramatically transforming how we live"**

## Synthetic Material Enables Soft Robots to Grow Like Plants

A team of scientists and engineers at the University of Minnesota has developed a plant-inspired extrusion process that enables synthetic material growth, which could enable soft robots to grow like plants. The method is innovative and new, and the resulting robots could navigate tight places, complicated terrain, and even areas within the human body. "This is the first time these concepts have been fundamentally demonstrated," said Chris Ellison, a lead author of the paper. "Robots are being used more and more in dangerous, remote environments, and these are the kinds of areas where this work could have an impact." Soft robotics is an emerging field where robots are made of soft, pliable materials as opposed to rigid ones. Soft-growing robots can create new material and "grow" as they move. Current soft-growing robots drag a trail of solid material behind them and use heat or pressure to transform that material into a more permanent structure. However, the trail of solid material becomes more difficult to pull around bends and turns, making it hard for the robots to navigate terrain with obstacles or winding paths.



## Re-purposing existing drugs to fight new COVID-19 variants

MSU researchers are using big data and AI to identify current drugs that could be applied to treat new COVID-19 variants. Finding new ways to treat the novel corona virus and its ever-changing variants has been a challenge for researchers, especially when the traditional drug development and discovery process can take years. A Michigan State University researcher and



his team are taking a hi-tech approach to determine whether drugs already on the market can pull double duty in treating new COVID variants. "The COVID-19 virus is a challenge because it continues to evolve," said Bin Chen, an associate professor in the College of Human Medicine. "By using artificial intelligence and really large data sets, we can repurpose old drugs for new uses." Chen built an international team of researchers with expertise on topics ranging from biology to computer science to tackle this challenge. First, Chen and his team turned to publicly available databases to mine for the unique corona virus gene expression signatures from 1,700 host transcriptomic profiles that came from patient tissues, cell cultures and mouse models. These signatures revealed the biology shared by COVID-19 and its variants.

# INTERNSHIPS



**"Study what you love and intern in what you want to do"**

## Software Development Engineering



Internshala

**Gurgaon**

### START DATE

Immediately

### DURATION

6 Months

### STIPEND

20000/Month

### APPLY BY

28<sup>th</sup> December 2022

### Skill(s) required

- CSS
- HTML
- JavaScript
- jQuery
- MySQL

### Who can apply?

Only those candidates can apply who:

- Are available for full time (in-office) internship
- Can start the work from home job/internship between 14<sup>th</sup> Dec'22 and 18<sup>th</sup> Jan'23
- Are available for duration of 6 months
- Have relevant skills and interests

### PERKS

- Job Offer
- Certificate

### NUMBER OF OPENINGS

3

**LINK :** <https://internshala.com/internship/detail/software-development-engineering-internship-in-gurgaon-at-internshala1671013881>

## Android App Development

Ibrat innovations

Delhi, Gurgaon, Noida

### START DATE

Immediately

### DURATION

6 Months

### STIPEND

20000-25000/month

### APPLY BY

29<sup>th</sup> December, 2022

### SKILL(S) REQUIRED

- Android
- Java
- Kotlin
- XML

### Who can apply?

Only those candidates can apply who:

- Are available for full time (in-office) internship
- Can start the work from home job/internship between 15<sup>th</sup> Dec'22 and 19<sup>th</sup> Jan'23
- Are available for duration of 3 months
- Have relevant skills and interests

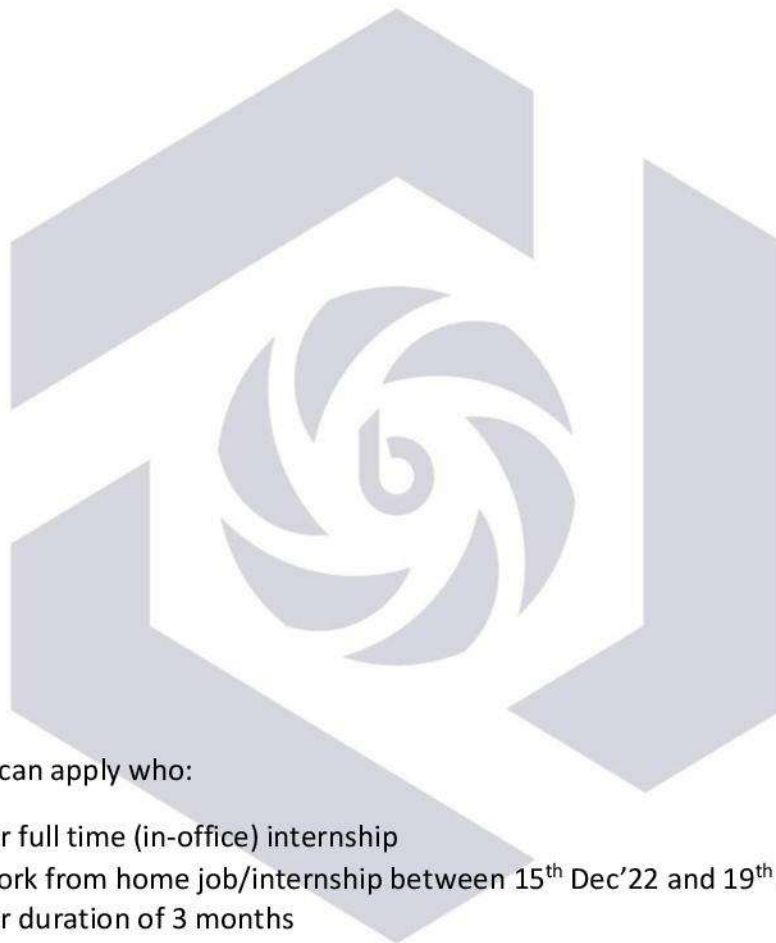
### PERKS

- Certificate
- Letter of Recommendation
- Flexible Work Hours

### NUMBER OF OPENINGS

4

**LINK :** <https://internshala.com/internship/detail/android-app-development-internship-in-multiple-locations-at-ibrat-innovations1671095657>



# FUN SECTION



**"PLAY is our brain's favourite way of learning."**



When you debug 30 errors and 50 warnings All day long



and find it was all because of missing ;



When I wrote this code,  
only God & I understood what it did.

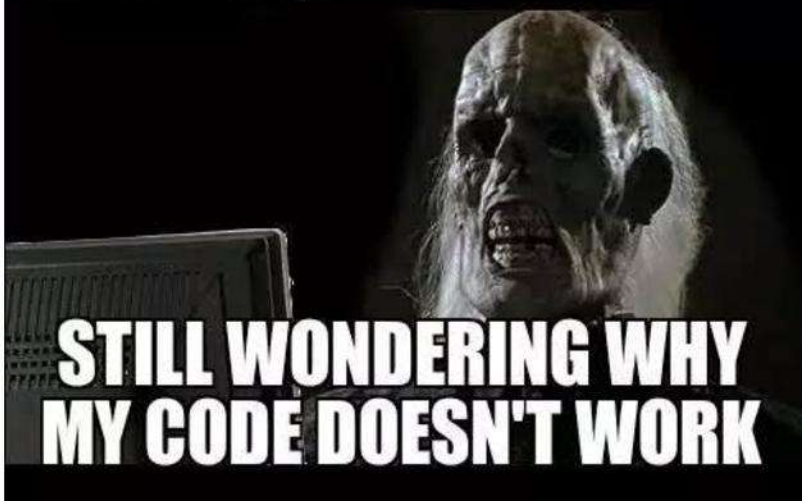


Now...  
only God knows.

**WONDERING WHY MY  
CODE DOESN'T WORK**



**STILL WONDERING WHY  
MY CODE DOESN'T WORK**







**BYTES**  
NOT JUST ONES  
AND ZEROS



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