



# CACHE

Presented by



Want to do research  
internship in Canada?

interview with the person inside

Introducing our new  
Office Bearers of  
ISTA 2022-2023

Experiences about  
GRE

Tips and tricks to  
attend GRE Exam

“Learn,  
Unlearn,  
Relearn”

STATISTICS  
ON CURRENT  
PLACEMENT  
DRIVE

## ACKNOWLEDGEMENTS

Our sincere thanks to the honorable Head of the Department Dr.S.Sridhar for his continuous motivation for students.

Many thanks to the respected President Of Information Science and Technology Association(ISTA) Dr.S.Swamynathan and beloved Treasurer of ISTA Dr.N.Thangaraj for encouraging us to start with this initiative for the welfare of department of IST.

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We also thank students for putting their absolute best with respect to the context of the magazine.

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## VISION OF THE DEPARTMENT

The Department of Information Science and Technology pledges to educate students with conceptual knowledge and technical skills to forge ahead in the field of IT, while inculcating deep moral and ethical values to achieve excellence, by providing a vibrant academic and research environment in collaboration with industry.

## MISSION OF THE DEPARTMENT

1. To inculcate in students a firm foundation in theory and practice of IT skills coupled with the thought process for disruptive innovation and research methodologies, to keep pace with emerging technologies.
2. To provide a conducive environment for all academic, administrative and interdisciplinary research activities using state-of-the-art technologies.
3. To produce graduates and doctorates, who will enter the workforce as productive IT engineers, researchers and entrepreneurs with necessary soft skills, and continue higher professional education with competence in the global market.
4. To enable seamless collaboration with the IT industry and Government for consultancy and sponsored research.
5. To cater to cross-cultural, multinational and demographic diversity of students.
6. To educate the students on the social, ethical, and moral values needed to make significant contributions to society.



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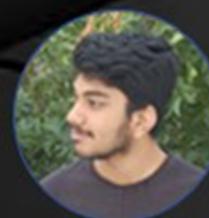
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## From ISTA...

ISTA is a student run society of DIST which is solely responsible for conducting I++ and ITrix every year. It has always enjoyed a respectable status amongst the students and was set up with the objective to organize various activities that contributes to the academic and professional development of students along with leadership qualities, teamwork and other essential employability skills. Some of our present intiatives are,

- > CACHE is our new initiative to represent and uphold the IT department as a whole among CEG's various other departments. This issue is the Fifth edition of CACHE.
- > We have already started Internship and Placement training groups to train our students to perform well in the campus placements and internship drives.
- > We have also started planning for I++ events and are in the process of procuring internships. Events team and IR team are working closely to get thing done for I++.
- > We are conducting special classes for lateral entry students to help the catch up with the subjects.

We welcome all the years of our department to actively involve and par-ticipate in each and every process of making our symposium a grand success.

ISTA has a LinkedIn page, ISTA CEG and an Instagram page, ista\_ceg. We expect your wholehearted support and will continue to strive hard for the bet-terment of the Students of our department.

- Akashram J  
Chairman, ISTA

# Interview with Aadithya Seshadri



Aadithya Seshadri, a final year IT student of Anna University has recently had an opportunity to partake in a 12-week research internship program under the supervision of Dr. Andrew Park, Associate Professor of Mathematical Sciences, Trinity Western University, as a part of the Mitacs Globalink Research Internship Initiative.

Mitacs Globalink Research Internship is a competitive initiative that provides top ranked international undergraduate students from various countries an opportunity to a research internship under the supervision of Canadian university faculty members in a variety of academic disciplines, varying from engineering to social sciences.

The Cache Team had the wonderful opportunity in asking Aadithya, about his preparation and experience at his Internship.

## ***How should one start preparing for the interview process?***

The first area that you have to work on, is upskilling yourself. You must start encountering and explore more skills across different domains. And as you explore, you will be able to fixate on your area of interest. Though your area of interest may not be rigid, it is good to have a particular area of interest that you would like to work upon in your future.

## ***What is Mitacs Globalink Research Internship?***

It is basically a research internship that happens in Canada, where a fixed number of applicants from all over the world get selected. The ones selected gets to undergo a research internship under a professor from a university in Canada

## ***How can we apply for this internship and what is the selection process? Are there any pre-requisites to be fulfilled?***

The only pre-requisite is to have chosen your area of interest. Then, you can apply for the different projects that Mitacs offers. Basically, you have to choose seven projects, and you have to rank those seven projects based on your preference. Once the ranking process is done, the professors you are applying for will shortlist based on your resume. This concludes the first round of selection.

The second round actually varies from professor to professor. Some professors send out contest links where you have to solve problems, and then filter based on who solves the best, while some others arrange for face to face interviews. Once this is over, Mitacs compares where you rank among the professors and which rank that particular project is in your shortlisted projects. And if both of them are high and match, you will get shortlisted under the professor and you will get to work on the internship project.

## **Can you tell us a little bit more about the project you took up?**

The domain I worked on was relating Criminology with machine learning. I basically created a graph database that helps simulating the street networks of Vancouver. And, I had to use third party APIs and data available on the internet with respect to Vancouver. I had to invoke crime data and apply this to my graph model, so that it provides a platform to predict different factors related to crime. So, the idea is to make this project open source, so that different Criminologists, teachers, students, can use this platform. That's basically the gist of my project.

## **We also heard that you got placed at Oracle now. Congratulations on that! So, how was that experience?**

In my case, it was pretty hectic as I had very little time to prepare for my placements. On completing my internship last summer, I had about three weeks to prepare for placements and I had to put a lot of effort into that particular period to compensate for the amount of time I lost. Regarding the placement process, it's more of a case where it is your day and there's no equation with this. The more you prepare, does not necessarily mean the sooner you get placed or the better package that you get. But the amount of effort that you put is always good, so make sure that you put a lot of effort. As for Oracle, in total we had three rounds, two technical rounds and one Managerial-HR round. The first round was basically a general technical round where we were asked questions, firstly on our projects, what we did, our resume basically, some of the skills that we have and how we put those skills to use. And then we were asked a couple of coding questions. Naturally, if you are good with DSA, you'll be able to solve them easily. I was also asked about a couple of DBMS queries. So that was like the first round of the Oracle procedure.

The second round was also a combination of Project Work, DSA and a couple of math puzzles as well. And, I guess GeeksforGeeks is enough for this preparation. And the last round was a purely HR Managerial Round, where we were asked questions on how we would manage situations, say, under pressure at the company and how we would manage a team in case there was a lot of dispute among the team members. We were also asked questions on set-theory and general math concepts, as well as questions pertaining to Oracle. Additionally, we were asked questions on cloud and different types of cloud and what we know about cloud and databases. So I think these were the three rounds in short.

## **What are some tips you would like to give to your Juniors?**

You should gather a lot of knowledge by exploring and upskilling yourself. You can either read articles or take up courses in Coursera, Udemy etc. and regarding placements, practice in data structures and algorithms from popular sites like LeetCode and GeeksforGeeks is good for getting to understand how to solve problems. Furthermore, I'd say, maintaining good connections is very important. Making use of platforms like LinkedIn can actually open up a lot of opportunities. In fact, one of the Internships that I did prior to Mitacs was actually obtained by me mailing the CEO of a company. I guess having a good connection network is also very essential in order to get more opportunities and make yourself established.

**Interviewed by:**  
Jovina Virgin X  
Third Year, B.Tech IT

**Reported by:**  
Saisathish Karthikeyan  
Third Year, B.Tech IT

# CREATIVE WORK BEHIND STRATEGIC PLAY - KiSSFLOW

"Tough times don't last; Tough people do." This is a line that perfectly paints the story of Suresh Sambandam, the CEO of KiSSFLOW. From being a small startup based in Chennai to becoming a million-dollar business franchise, they have scaled great heights and come a long way. Suresh Sambandam, born and brought up in Cuddalore, started his journey in entrepreneurship at just 19 years of age. He joins a typewriting class and proceeds to learn computers which ends up changing his whole life. He starts learning dBase and understands computers would bring a revolutionary change in the business model. He wanted to be a part of this change and starts focusing on his career. In 2002 he founded OrangeScape which used the PaaS business model. This was a huge success until 2011, but after this period there was a spike in the SaaS business model and OrangeScape faced heavy losses. He understood that he must adapt to the new market conditions to survive, and that's what he did.

In June 2013, he launched KiSSFLOW which is a business workflow management software built on the SaaS business model. The product also offers purchase order management, payment-process approvals, and purchase-requisition workflow processes. It is uncomplicated and processes can be handled with ease, flexibility, and accuracy and that's how it got its name. K.I.S.S is an acronym for "Keep it simple, stupid!". Generally, many workplaces play whack-a-mole when solving workplace problems with software. They buy different solutions to cork problems at different points in time, without accounting for overlapping functions. Employees are left confused when it's time to choose a medium to work. Be it communication, sharing, managing data, projects, or any other core functions, it's hard to organize and control work that is happening on multiple levels simultaneously.

It becomes increasingly hard to maintain visibility and transparency within teams since work gets increasingly complex and siloed in different apps. KiSSFLOW Digital Workplace solves this problem that eats up productivity and work culture.

Modern problems require modern solutions they say, KiSSFLOW became the solution. The team worked hard and long to understand customer problems and to figure out the best way to handle them. They worked very hard to build an extensive customer base throughout the globe. Now they provide services to Pepsi, Airbnb, Casio, Disney and even more. Not only did they innovate on technology and product management, but they also innovated on user experience, an area often missed, and of course most importantly in sales and marketing. Apart from reinventing his business, Suresh also reinvented himself: he went from being a suit-wearing corporate executive to an informally dressed startup executive. When asked why he confidently said, "even the founder should be out there building an image".

"Entrepreneurs who want to build institutions will go through any hardship before they succeed." KiSSFLOW is growing rapidly and now has close to 200 employees. Their story is the perfect example to understand that "change is inevitable". Suresh Sambandam was not afraid of change. Failure did not scare him. He understood the market, understood customer needs and developed his product accordingly. He implemented creative strategies and success knocked on his door. And in this process, he did not hesitate to reinvent himself. That is why KiSSFLOW stands tall as an example of the never-say-die attitude of the Indian entrepreneur.

By  
JOVINA VIRGIN  
Third year, BTech IT

# Wanna have a less cumbersome JAVA experience?

Ever felt lethargic of typing all the public static and void keywords just to define a main function in JAVA. Then here is something which you might like to have a look at. More precisely, this on-ramp approach is proposed for beginners, who begin their hands on programming with JAVA as the initial language and might feel those keywords too verbose. Also not to forget that, this pre required ceremony of typing all the by then unheard stuff, might cause beginners to back off from learning because of the enormity of stuff they've got to understand beforehand or it might even lead them to just memorize the stuff as some magical incantations. At the same time, advanced programmers who just got used to with the intricacies of JAVA won't feel it comfy to just go with the simpler verbose free structure, as it won't be visibly descriptive. So in order to ensure that the beginners are provided with a hassle free learning experience without trading off other JAVA programmers comfy zone, a new definite non-goal of "a simple dialect of JAVA for students" has been proposed. It has been identified that three simplifications, should aid both educators and students in navigating the on-ramp to JAVA, as well as being generally useful to simple programs beyond the classroom as well : a more tolerant launch protocol, unnamed classes, predefined static imports for the most critical methods and fields.

In order to make the concept overload simpler, the interactions between the java program and the java launcher can be relaxed to an extent. This can be achieved by relaxing the requirement that class and main method be declared public. Public access is relevant only when the class access crosses packages. For a beginner's level that is not required, so we can just drop that requirement, effectively treating the java launcher as if it too resided in the unnamed package. And not stopping with this making the "args" parameter which is passed as an argument to the main() method and the static modifier, optional should ensure further more simplicity.

Coming to the second of the three simplifications, the class declaration often doesn't help either, because other classes (if there are any) are not going to reference it by name, and we don't extend a superclass or implement any interfaces. Such source files can still have fields, methods, and even nested classes, so that as a program evolves from a few statements to needing some ancillary state or helper methods, these can be factored out of the main method while still not yet requiring a full class declaration.

Onto the final simplification, though predefined static imports for String and Integer classes have been automatically on-demand imported without requiring a "import java.lang.String", still manual import for console IO (System.out & System.in) will be hard for beginners to get through initially. While these are currently instance methods accessed through static fields, we can easily create static methods for println and readln which are suitable for static import, and automatically import them.

The goal is to ensure that concepts not needed by simple programs need not appear in those programs, while at the same time not encouraging habits that have to be unlearned as programs scale up. Each of these simplifications is individually small and unintrusive, and each is independent of the others. And each embodies a simple transformation that the author can easily manually reverse when it makes sense to do so: elided modifiers and main arguments can be added back, the class wrapper can be added back when the affordances of classes are needed (supertypes, constructors), and the full qualifier of static-import can be added back. And these reversals are independent of one another; they can done in any combination or any order. Alright then, so with fingers crossed let us await for these beneficial features, to be available soon in the upnext release.

Reference : Paving the on-ramp by Brian Goetz, openjdk

```
#older_verbose_code
public class HelloWorld {
    public static void main(String[] args) {
        System.out.println("Hello World");
    }
}
```

```
#simplified_verbosefree_code
void main() {
    println("Hello World");
}
```

By  
Edumba Vannia Raja T  
Third Year, B.Tech IT



Artworks by  
Shantha Priya. M  
2021115100

### COLLEGE OF ENGINEERING GUINDY

The red lady symbolises 228 years of legacy.....

- Having experienced more than a couple of centuries.....  
producing numerous engineers, entrepreneurs and innovators every year.....
- Having a glorious history of alumnis She stands magnificent.....
- This icon holds a million memories to be cherished.....

The red lady always had, has and will always continue to fascinate us

G

R

E

GRE is an exhaustive exam spanning across 4 hours where verbal section is the most difficult part to score well. There are plenty of apps. GRE stands for Graduate Record Examinations and is a test conducted by ETS to measure your readiness for graduate school. It's quite an exhaustive exam spanning across 4 hours consisting of multiple sections such as AWA, Quants, and Verbal. There are plenty of apps with flashcards that help you remember a word along with its usages and meaning. One of the popular app is Magoosh where you get to learn almost all the high frequent GRE words. There's also Gregmat's vocabulary list with images that help you remember words easily. Mnemonic Dictionary is a life saver for almost everyone who prepares for GRE Verbal! The dictionary has a lot of mnemonics that help you easily remember a word.

Coming onto the Quants section, Indians really ace this section but it's not definitely a cake walk. The section is filled with traps that a test taker easily falls for! It's highly important that you not only have the ability to solve problems but also read questions clearly! On a personal note, ensure that you do not feel over confident for the Quants section and under confident for the Verbal section. The price for each test attempt for the GRE is really high, but once you step into the examination centre, forget about the price and give your best. Having that pressure of retaking and paying 200\$ again might actually not help you give your best during the exam. Some of the popular services which you can avail for preparing for the exam are Magoosh's GRE portal, and Gregmat's GRE prep+ toolkits. It's a must that you solve ETS's GRE official guide as well. It is best to take around 8-10 mock tests simulating the test environment so that you're well aware of how the test environment would be. Before starting your prep, try to take a diagnostic test, analyze your weaknesses and then work on them accordingly. At the end of the day, it's just another exam in your life and believe in yourself on acing it :)



By  
VISHNU VASAN R  
Final Year, BTech IT

G

R

E

The GRE exam was a new experience among the various computerized tests I've taken over the years.

From my preparation phase through to completing the test, I feel that there are two things that matter the most in GRE:

- time management
- knowing tips and tricks to circumvent questions that look challenging.

To ensure complete performance, you need to practice by taking up a model test and strengthening your weaker sections. ETS, the organization that prepares the GRE test, offers two free online mock tests which you should definitely take up before the actual exam. Knowing the blue print and the model of questions are important to avoid unnecessary surprises during the actual exam.

To build up your vocabulary, flash cards are a great solution. I suggest you take up the task by learning around, say, 50 words at a time. There are also several apps for these cards and more prep material available in the Play Store for free from Magoosh. I used Barron's GRE book as a guide, which had a list of high-frequency GRE words and gave me insight into how the analytical writing tasks needed to be attended. As for the mathematical sections, knowing tips and tricks are vital cause there would always be easier ways to solve them. I got to know them through guide book, but if you feel the need to attend a coaching centre then that is fine too. The day of the GRE exam is going to be quite long, no doubt. But it's the prospects of getting a 320+ score, and subsequently getting accepted by a top university that counts! Enjoy your preparation, don't be unnerved by anything, and stay healthy. Good luck!



By  
ARVIND P  
Final Year, BTech IT

# PLACEMENT STATS

CACHE

1



3



2



4



7



6



13



Total number of students Placed - 77

\*Numbers in the boxes indicates the number of students placed in each company

# INTERNSHIP STATS

Total number of students who got intern

**35**



- 11



- 7



- 6



BNY MELLON

- 4



- 4



- 1



- 1



- 1

\*Number in the boxes indicates the number of students who got intern in that company

# NAAN MUDHALVAN

Naan Mudhalvan is a massive industry relevant skill enhancement initiative for the Youth of Tamil Nadu. With this scheme, students are provided with a number of courses to learn from which are curated and provided by top Industries with content that is relevant and required for the industries. This Programme helps students to get to know the skills and knowledge expected by the industries in their employees. This programme was initially for 5th semester students in Anna University campuses and its affiliated colleges. Now, it's being extended to 3rd Semester students as well.

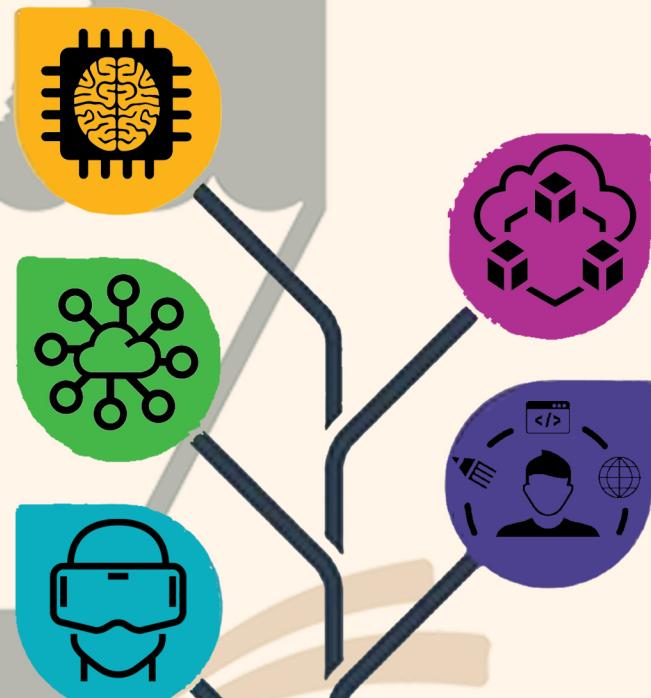
Courses are being provided on trending technologies which have a lot of scope in Industries, few of them are: Big Data Analytics, Machine Learning, Full Stack Development, AR & VR, Cloud computing essentials, etc.

It's a 2-week programme, where for few, the courses are self-paced while for others its target based. Regular quizzes and assignments are assigned in between to test the understanding of the students.

The content of the courses is well designed and divided into units and sections, so the students can come back and relearn any topic they are not very sure of.

Students are assigned the course to be done by the college and are given the choice to choose. It would have been more useful if students are not given the option to choose the course that they feel they need to get skilled. However, all being said, this programme has helped students to learn new stuff which are worth adding in resume and can help them stand out from others in interviews.

By  
Risitha N  
Third Year, B.Tech IT



## BITS & BYTES '22



Induction programme is conducted every year for the first years to welcome and make them feel comfortable with the new college environment. Activities like creative arts, yoga sessions and sports activities are held as a part of a 10 day programme. The department activities were scheduled from 29th October to 4th November for an hour daily from 2:15pm. As a part of this, Bits and Bytes was organized by ISTA.

Each day had a couple of events planned. Most of the events were team based to help them socialize and interact with others. The events were planned in such a way that they have fun and they get to learn something new as well. The events were held in Ada Lovelace Auditorium.

On day 1 of Bits and Bytes, 29th November , Professor Dr. Ranjani Parthasarthy and Assistant Professor Dr. Selvi Ravindran addressed the students. It was followed by an introduction to the office bearers of ISTA. After this, the first event Connections was conducted which was followed by Dum Charades, the second event for the day. Action passing and Enact a scene were conducted on day 2. First year students had a great time participating in these events. On 1st November, Jeopardy event was conducted along with Deciphering. And finally on 3rd November, Treasure hunt and Murder mystery were held so that they get to know more about the department and have a fun time as well. Students enjoyed participating in these two events.

First year students had participated in every event with full interest and enthusiasm. The events had active involvement from students as well as volunteers. The whole event went smoothly right from planning to execution.Thanks to the active participation from first year students and volunteers.

ISTA feels very much delighted to appreciate all the volunteers who planned these wonderful events. We wish the first year students an amazing college life ahead. Get ready to embrace new challenges and seek new opportunities!

- Srishti Gulecha R

Third year, IT

November 2022 | annauniv.edu/DIST

# BITS & BYTES '22

## PICTURE GALLERY





## முயற்சி

தோல்வியை நகர்த்தி  
விடுகிறேன்  
வெற்றிக்காக  
பாதையிலுந்து

வாழ்க்கைகளை நடைபாதை வகுக்கவில்லை  
காற்றடிக்கும் திசையில் மனம் பறந்து  
செல்கிறது!!!  
வாழ்க்கையின் எதாற்றம் இதுவே

சந்தோஷமான வாழ்விற்கு கடினமான பயணம் அவசியம்  
வாழ்க்கை பயணம் முடியும் வரை இன்பமும் துன்பமும்  
முடிவதில்லை !!! இதுவே வாழ்வின் மாறாத நியதி

எல்லாமே சிறியதிலிருந்தே பெரியதாய் முடிகிறதை என்பதை சிறு ஏறும்பு உணர்த்து  
அதைவிட ஜந்து மடங்கு எடையை தூக்கி மனிதர்கள் சிலர் அவர்களின் கண்ணுக்கு  
புலப்படாத இச்சிறு விசயத்தை உற்று நோக்க தொடங்கும் போது வாழ்வின் அர்த்தம்  
புரிய தொடங்கிடும் ..!!!!

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