FOR EVERYTHING AIIT

An Initiative by AIITians
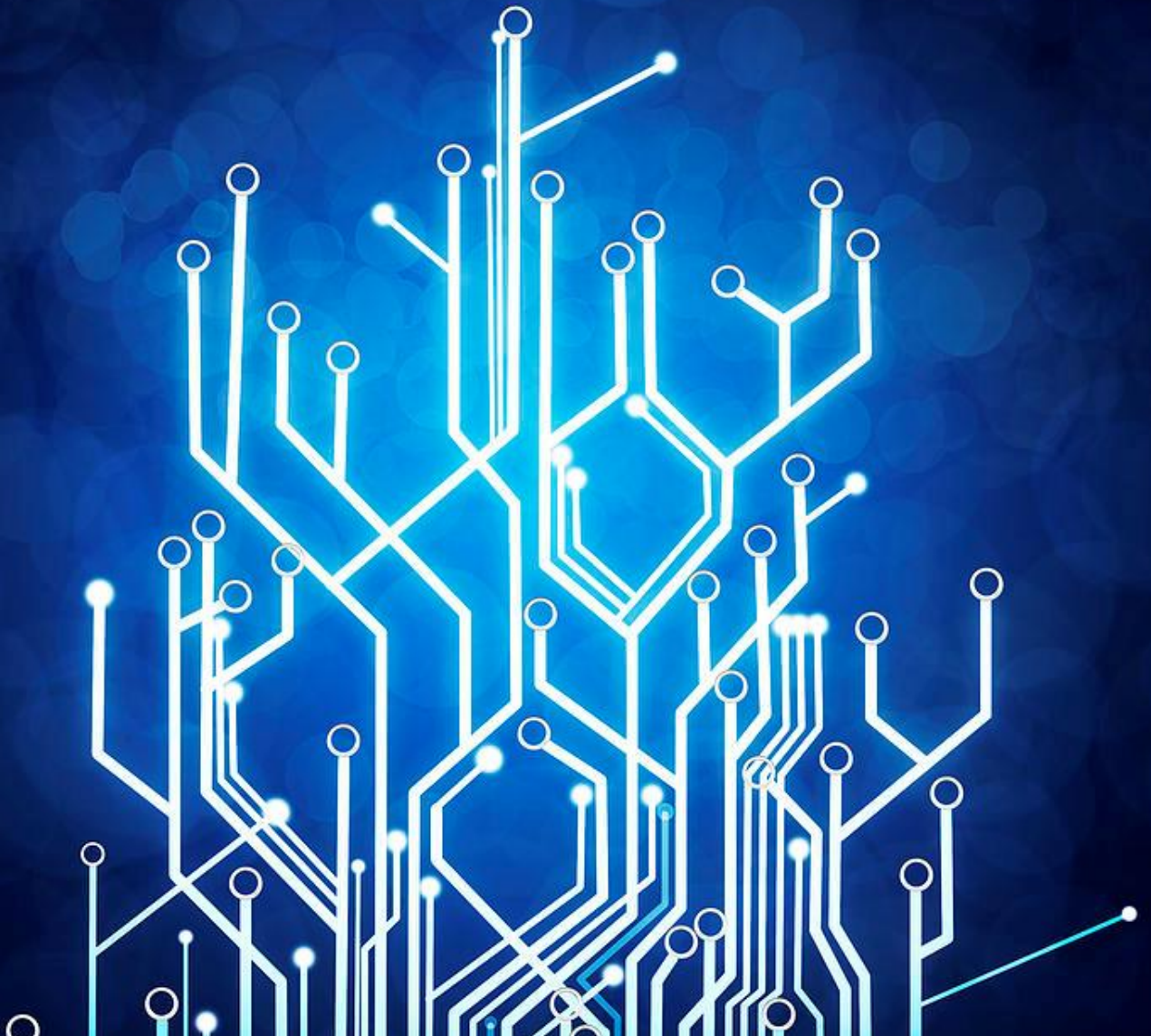
FROM EDITOR'S DESK

"Arise Awake And Stop Not Till The Goal Is Achieved"

Here we stand before you, with a magazine which was made with a lot of brainstorming, love and efforts. Putting this magazine together wasn't an easy task for us. We have spent sleepless night to make this magazine stand out.

"TECHASHI" which was just an idea for us, is here being published today, from AMITY INSTITUTE OF INFORMATION TECHNOLOGY. The name Techashi simply means 'the blessings of technology'. The magazine revolves around all the happening in our department. This magazine purely is a platform for students and teachers to showcase their talent, skills and innovation. This magazine presents to you the hard work and contribution of teachers as well as students.

For our brand new edition our team would like to thank everybody who has encouraged and motivated us! This wouldn't have been possible without your guidance and would've been just a dream for us.

Here we are with our edition, hoping you'd like this. Waiting for your response. Thank you all!!

- Isha Gupta (BCA 3A)
Ashish Singhal (BSc IT 3)

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ENLIGHTENING AMITY

"Successful and happy individuals build successful nation.
That strong foundation is none other than good education. Because in education lies the biggest service to the individual, to the nation and to humanity all over the world.

Dr. Ashok K Chauhan

"We are creating centers of thought leadership across the world, where faculty, scientists and brilliant students can explore and expand the frontiers of knowledge.

Dr. Atul K Chauhan

"Values are the foundation of becoming good human beings who became assets to the society and nation.

Dr. Balvinder Shukla

From the Director's Desk

"Our youth is exceptionally talented. If you bring stagnancy in your knowledge and restrict yourself from learning newer trends and technologies, then it would be quite obvious that the students will be deeply impacted in a longer run.

In addition to that, I am also a strong believer of the fact that "a teacher is immortal" but how? With the finds, research, publications and the work he has done in the past, will it at all, be useful? Will it be referred by existing as well future students till all times to come? Therefore, it is my sincere suggestion to each and every individual who is in the profession of teaching must focus on self-development and become immortal.

In order to achieve all this, faculties need not spare time for these activities. In fact, it all must become a part of their routine exercises. For instance, if having a breakfast, lunch and dinner is a part of their routine, then a perfect space should be given to all these learning exercises on daily basis without which their day should not end. Moreover, I have noticed few individuals who mark these self-development exercises on secondary front and keep themselves occupied in other assignments.

There are examples of such individuals as well who keep these assignments reserved for weekends and compromise their time which their families deserve. Eventually, their life routine, develop-

mental activities and most importantly, the lives of their families gets affected.

The sole suggestion is: one must practice perfect routine and make all learning exercise a part of their routine and ensure that their families equally get their time and focus.

Students need to focus on only two activities i.e. acquiring knowledge and maintaining their personal health, rest all comes secondary. Students should clearly define their daily routine, monthly routine and annual routine and strictly follow that. I also suggest their families to respect their schedule and help them to follow the same."

-Dr. Ajay Rana
(Director, AIIT)

PLACEMENTS: AIIT

At amity university, we have an excellent record of 100% placements being done every year. This year too, many renowned companies are going to visit AIIT for recruitment purposes such as SAP LABS, Deloitte, KPMG, Accenture etc.

The head of the institution (Dr. Ajay Rana) and placement coordinator (Dr. Neetu Mittal) left no stone unturned to help students in achieving their goals. They keep their students motivated and made them believe that if a student is passionate about something, AIIT would be one of the stepping stones in developing their career.

The placement record in past years has increased by a large number of margin. Alumni of AIIT are making the institute proud of them. Here, at AIIT all the faculties are very passionate about teaching and make sure that all students learn more and more, each day. The online mock tests for placement have been started from the last year 2018 to give students the idea about how tests will be done. This year also, in July, students gave online mock tests to prepare themselves for the recruitment tests. Analyzing their qualitative, quantitative, technical as well as logical skills.

Students of AIIT were having the privilege to learn digital marketing as a certification course from Accenture itself with the guidance of industry experts. They will surely get a better understanding from an industry point of view from that. Also, those who perform exceptionally well will get a chance to join Accenture after the completion of course.

A three-day process of Capgemini for recruitment of post-graduates was held on 1st of August 2019. Later, on 5th August, undergraduate students started their online tests with SAP LABS and on 9th of August, Deloitte had their online tests for undergraduate students. KPMG is having a pre-placement talk with undergraduate and postgraduate students on 19th of august and other companies have their schedules accordingly for the students of AIIT.

- Aamna Shahab

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ALMA MATER	FAVOURITE MOVIE	HIGH POINT IN LIFE
Bal Vikas Progressive School	THE AGE OF ADALINE (There is something that allures me.)	"When I found out that I cleared all the aptitude tests that I appeared for"

MEGHA

· **How do you feel after getting placed?**

A plethora of positive emotions, happy, proud, relieved, excited, a feeling of accomplishment - you name it and it's there. It is my privilege to be associated with such a prestigious organization. What enhanced the experience was the admiration I received from our director sir, all the faculty members, family and friends.

· **What is the best thing about Amity/AIIT?**

Amity has a way of pushing your boundaries to mould you into a better self. The reason why I chose Amity was because of its promise to shape you into worthy professionals. It focuses on attaining basic human morals and values while preserving the sacraments of our culture. The treasure of AIIT is the compassionate and helpful faculty.

· **How do you de-stress?**

I am a Buddhist practitioner, so chanting is my principal way out. It helps me gain a clear vision. Being a practitioner has transformed my life for good. Apart from that, I love to do calligraphy. It has an oddly calming and soothing effect on me. Also, I love to sing.

· **What are your interests?**

Brainstorming! I love the activities that keep my brain engaged. Mathematical and Logical activities are the best way to do that, hence I love solving puzzles and playing brain games like chess. I love to bake (cakes mostly) and watching English TV-series and movies. Reading books is another love and I'm a big time foodie.

· **The most funniest thing people assume about You?**

I get arrogant when I achieve something.

· **What is your life mantra?**

Be grateful - For anything and everything. Try to find that one thing (at least) to be grateful for even in the worst of situations. Have faith in yourself and the Universe.

· **What advice would you give to your juniors?**

You have the greatest gift of time. Utilize it to develop skills and obtain knowledge that can benefit you in the future. Ask around! Being oblivious is your biggest drawback. One important advice for recruitment process - Enjoy the process.

· **I would also like to appreciate ASHISH and ISHA, who are working hard, putting their heads together to create an impressionable magazine for AIIT. Techashi is a great way to endorse the ongoings of AIIT.**

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ALMA MATER	FAVOURITE MOVIE	HIGH POINT IN LIFE
Kendriya Vidyalaya	Mary kom (It motivates me to never give up on my goals.)	"Current time, when I'm more than halfway through my MCA degree and have been placed in leading global professional service company."

PARUL

How do you feel after getting placed?

I am extremely happy and excited to be placed in Accenture. All my hard work paid off the day I got to know that I have been selected in the one of the leading professional company. I am really looking forward to work with Accenture.

What is the best thing about Amity/AIIT?

The best thing about Amity University is its brand value and *sanskar*. It provides exposure, Placement and everything. Amity has been ranked as one of the top nonprofit universities. The Infrastructure, faculty, and campus everything is best among the class. The course Foreign Business Language is a great initiative to make students learn foreign languages in their curriculum.

How do you de-stress?

I spend time with my family or friends. It gives me a sense of belonging and self-worth, which helps me whenever I am stressed about something. Also I switch to cartoon shows as they help me not to think about all the deadlines and due work at least for some time so that I can give my mind a break.

What are your hobbies?

My hobby is to read mystery novels and painting.

Who is your Role Model?

My mother is my role model. Everything I've learned about dedication towards a goal is what I have learnt from her. The way she balances her professional life and home is something I always admires. She is full of wisdom and she just has a magical sixth sense to always pick up on the right things in life. She is basically a little ray of positive sunshine always there to support and guide me.

What is your life mantra?

Just go with the flow because whatever happens for your best. Just live, laugh, dance, read, travel, explore, love, get hurt, fail, do every possible things to make you feel alive, respect your parents and each and every human being, just make your presence felt everywhere you go. Smile and make everyone around you smile.

What advice would you give to your juniors?

Take every opportunity. Realize it's OK to not be OK. College is stressful, and you're going to have meltdowns. Just learn how to deal with them in a safe manner. Self-care is important, friends are great. If you feel like you're falling behind in a class, talk to your professors. Don't be scared to speak to them. They are there to teach you things, help and guide you.

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ALMA MATER	FAVOURITE MOVIE	HIGH POINT IN LIFE
Dashmesh Public School, Delhi	3 IDIOTS (IT SHOWS HOW TO BE PASSIONATE TO CHOOSE BEST CAREER PATH)	"During my major internship in graduation where I got to know that I can do a lot better than what I am currently doing."

ANUPAM PRADHAN

How do you feel after getting placed?

It is a fantastic feeling to get placed at the very first phase of campus placement. I feel very much relaxed and I can prepare for better opportunities now.

What is the best thing about Amity/AIIT?

There are many great things about Amity and AIIT especially teachers, infrastructure and culture. Placements play an important role and I'm satisfied with my placement.

How do you de-stress?

To de-stress myself I basically go for a walk and listen to some good music and most of the time I talk to my best friend who is always there with me in ups and downs of life and always motivates me to do better in my life, it helps me to relax.

What are your hobbies?

My hobbies include cooking, playing cricket, travelling, exploring places where I can find some good food.

The most funniest thing people assume about You?

Sometimes my behavior and facial expressions

Whom do you consider your mentor?

I consider my mom as my mentor because the way she handles everything from household to business it really motivates me to do something great.

What is your life mantra?

It's better to fail rather than running away.

What advice would you give to your juniors?

Do your best focus on the basic concepts of programming and prepare for aptitude well in advance. Develop good communication and leadership skills.

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ALMA MATER	FAVOURITE MOVIE	HIGH POINT IN LIFE
Maharaja Aggarsain Adarsh Public School, Delhi	3 IDIOTS (NEVER STUDY TO BE SUCCESSFUL, STUDY FOR SELF EFFICENCY)	"When I got placed in one of the most renowned brands of the market"

VIKAS KAUSHIK

- **How do you feel after getting placed?**

I feel extremely enthusiastic and excited to start off my career. I can't wait to join Accenture. It's a dream come true. After being placed you feel a sense of satisfaction. The feeling of achieving your goal, desire is incredible.

- **What is the best thing about Amity/AIIT?**

Amity provides great opportunities and ambience which in the long run helps in getting good placements. It provides a comfortable environment. AIIT offers a lot of opportunities to work on ourselves and provides exposure.

- **How do you de-stress?**

I do meditation and yoga. Meditation and yoga calms us down. The music involved with meditation relieves stress.

- **What are your hobbies?**

I like to involve in physical workout or sports whenever I get the time. It helps in keeping our body fit.

- **The most funniest thing people assume about You?**

The freaky craziness that I always carry.

- **What is your life mantra?**

Get your priorities straight and never give up on them.

- **What advice would you give to your juniors?**

Be calm and keep focusing on your goals. There is nothing that you can't achieve in life. Keep working hard and have your goals set to achieve what you dream of.

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ALMA MATER	FAVOURITE MOVIE	HIGH POINT IN LIFE
CCDPS, Ghaziabad	THE PERKS OF BEING A WALLFLOWER (THE MOVIE HAS ALL THE EMOTIONS FUNNY SAD AND LOVING, ITS RELATEABLE)	"Acquiring my first campus placement"

KOMAL SRIVASTAV

- **How do you feel after getting placed?**

I feel fortunate, delighted and primarily motivated. Satisfaction is what I feel.

- **What is the best thing about Amity/ AIIT?**

Amity is a leading education group with reputed faculty and a passion about grooming leaders who are not only thorough professionals but also good human beings with values.

- **How do you de-stress?**

Listening to soothing music, practicing meditation and sometimes having a warm drink.

- **What are your hobbies?**

Watching English movies & series also, listening to music-inclination towards country music.

- **The most funniest thing people assume about You?**

I am bizarre

- **Whom do you consider your mentor?**

My Dad has always been one of my biggest mentors. He instilled in me the value of hard work and time.

- **What is your life mantra?**

Everything I need is within me.

- **What advice would you give to your juniors?**

You now stand at a threshold of a dream life. I will extol the importance of hard work, failure and thinking. Keep learning, keep exploring and keep doing more.

- **I would really appreciate the talent the work of ISHA and ASHISH, for their admirable work for TECHASHI.**

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ALMA MATER	FAVOURITE MOVIE	HIGH POINT IN LIFE
St. Teresa School	GULLY BOY (ITS FUN TO WATCH)	"Being the reason of my parents' smile"

YASHASVI BHARDWAJ

· **How do you feel after getting placed?**

It is an amazing feeling, a feeling of accomplishment that comes when you achieve what you wanted. I am all boosted up for coming challenges and opportunities.

· **What is the best thing about Amity/ AIIT?**

Best thing about Amity is it's Magical Environment which gives Positive Vibes. The best faculty that I have had, with a comfortable and welcoming environment.

· **How do you de-stress?**

By talking it out with someone very close to me and long drives with soothing music. All of this helps me relax and calm myself down.

· **What are your hobbies?**

Photography and Cooking

· **Who is your Role Model?**

My role model is my Father because the

way he visualizes life is Amazing. Having a positive attitude every time in every situation. He motivates me to do better in life and always wishes the best for me.

· **The most funniest thing people assume about You?**

That I diet

· **What is your life mantra?**

Keep working hard with a Smile on your face and everything will turn out to be good.

· **What advice would you give to your juniors?**

Always listen to your heart and trust your instincts. No matter what happens, have a positive attitude and things will turn out to be fine. Keep Smiling!

· I would thank ASHISH and ISHA for their considerable work, and giving the opportunity to express in the TECHASHI .

Student Achieve

"I, Shivam, pursuing BCA from Amity University, would like to share my experience of becoming a Microsoft Technical Associate for security fundamentals. This has been a huge accomplishment for me. The Microsoft Technology Associate (MTA) certification is an entry-level credential that validates fundamental technology skills and knowledge among students and job-seekers who are pursuing a career in technology. MTA is the ideal starting point for anyone interested in starting a career in technology. And for this achievement, I am thankful to my mentor and the entire Amity faculty that has always been really supportive and encouraging. I would suggest all the students to pursue this as it is a great stepping stone for technical field students and will help them get better placements and knowledge in future."

Microsoft MTA Security Fundamentals 2019

MTA: Security Fundamentals - Certified 2019
Issuer: Microsoft

Microsoft Technology Associate

Shivam .

has successfully completed the requirements to be recognized as a Microsoft Technology Associate for

Security Fundamentals

Microsoft Technology Associate

- Shivam (BCA 3A)

Traffic Awareness Drive

Activity Topic: Traffic Awareness
Venue: Gate No. 1 & 4 Amity University, Uttar Pradesh
Value Represented: Grace towards nature
Date of Conduct: 8th August 2019
Faculty In-charge: Dr. Laxmi Ahuja, Dr. Sapna Sinha
Student Coordinator: Ashish Singhal & Siddharth Gupta
Student Organizing Team: Ashish Singhal & Siddharth Gupta

Participating Students- BCA & MCA (Dual): Ansh, Tushar, Harsh, Aditya Mohan, Rohan, Satvik, Aniket

A Public Traffic Awareness Drive for road safety was organised on 8th August, by the students of AMITY INSTITUTE OF TECHNOLOGY (AIIT), Amity University, Noida.

Objective :
The motive behind organizing the drive was to develop the student as a national power, to create awareness among them about the development of the nation, in which road safety plays an important role. The main objective of the drive to promote the traffic road safety information to the people via students.

Methodology:
At the beginning of the drive, Dr. Laxmi Ahuja provided guidance to all the students by detailing them about the road safety rules. She focused on the point that while driving a car, seat belt is a must and while riding a two wheeler, drivers' helmet must be on as this is the basic precaution and prevention to the road accidents. The students along the traffic management gaurds helped managing traffic and made people aware and showing the posters and dictating slogans. Students also stopped the vehicle violating the traffic rules and made them understand the importance of following traffic rules and ensuring their safety.

Details of the activity: On a fine warm morning, a bunch of students gathered at the venue along with the respected faculty members. The drive started from Gate 1 and ended at Gate 4 of the campus of Amity University. In the rally, the students were walking along with the posters, relating to the safety rules while chanting sarcastic slogans. It was a successful event wherein the students interacted with the common citizens. The students tried to spread awareness about wearing Helmets, not to ride triply on two wheelers, etc during the rally.
This event was completed under the guidance of Dr. Laxmi Ahuja (Deputy Director) and the successful leadership of Ashish Singhal.

On this occasion, Director Dr. Ajay Rana congratulated all the students and wished them a bright future.

Student Learning Outcome: Students understood the relevance and importance of road safety and trivial steps like this drive, induced in them a sense of responsibility, they owe towards the betterment of the nation as well as the natives of the society.

Panel Discussion on usage of Tobacco & Narcotic Products

Activity Topic: Panel Discussion on usage of Tobacco & Narcotic Products
Venue: I Block, 309
Value Represented: Awareness regarding use of such products
Date of Conduct: 26th July 2019
Faculty In-charge: Dr. Laxmi Ahuja, Dr. Sapna Sinha
Student Coordinator: Siddharth Gupta & Aahish Singhal
Student Organizing Team: Siddharth Gupta & Ashish Singhal

Participating Students- **BCA 1A: Shreya Bharti, Aryan Tiwari, Harshit**
MCA 1: Priyaank Sinha, Siddharth Gupta, Bharat (BSc IT)

Objective:
With the increasing advent of the use of tobacco & narcotic products among the youth, the aim of the organized activity was to make them aware of the ill-effects, working and legal ramifications of such behavior.

Methodology:
As a part of the event conducted, A panel discussion comprising of volunteers was organized, the total duration was around forty minutes.

Student Learning Outcome:
Students understood how such products affect their minds and lives plus the severity of their actions if they indulge themselves in similar actions.

How Student will apply in real life:
With such understanding and with some awareness being induced into their minds, the theory is that they won't indulge in consumption of such products and if needed, then will put a stopper to the consumption of such products for those who're addicted.

Details of the activity:
On today's fine evening a bunch of students gathered at the venue along with the respected faculty members who were the entitled jury. The panel discussion started with the opening thoughts highlighting the usage trends of such products among the youth and was concluded with a dialogue on various coping mechanisms

Dealing with Disruptive Technologies

- Dr. Sapna Sinha

In the continuous age of change, new technologies are evolving. The new evolving technologies are displacing already established technologies and giving rise to completely new industry. Due to all this disruption new skill sets will be required by industry to rapid changing work, both who are employed and those who are looking for the job has to update their skills to ensure that they are familiar with these technologies. For successful career, one should watch emerging trends and embrace it.

According to Mc Kinsey Report , Following technologies will be taking over the world :

· Mobile Internet: – 6 times growth in sales of smartphones & tablets observed since 2007 & more than 4.3 billion are connected to internet. Due to this many day to day work like bill payment, m-Commerce, online TV, News & many more different kind of apps came into existence. Demand of mobile app developer will be increased in

· Automation :- Due to 100 times increase in computing & 400+ million intelligent digital assistants , automated digital apps will be used for automation of other knowledge work,

· Internet of Things :- There is 300% increase in connected machine to machine device has been observed & more than 1 trillion devices are connected to internet IoT will soon be used by layman.

· Cloud Technology :- There are 3 times increase in monthly cost of renting in cloud industries have realized now that the efforts are taken for managing IT infrastructure is costing them a lot. Cloud is proving to be more efficient due to it's on demand nature. In near future more companies will be shifting their maximum processes on cloud.

· Advance Robotics :- There is 170% growth in the sales of industrial robotics and 12% manufacturing workers. In years to come Robotics driven manufacturing will appear more in trend.

· Autonomous & Near Autonomous Vehicles :- Google Car is the example of Autonomous Vehicle, whose efficiency can be judged that the car has travelled 3000000 miles with only one accident that was also due to human error.

· Genomics:- More work will be done in the area of Genomics in coming futures, people having knowledge of genome will

· 3D Printing, Augmented Reality and Virtual Reality :- use of 3D printing, AR and VR will be going to increase in the future. These technologies will be used in various sectors like construction, real estate, education etc.

· Advance Materials:- materials like nan tube are becoming cheap and replacing existing materials. Industry will be going to focus more on use of advance materials in future.

· Advance Oil & Gas Exploration:-new avenue's for oil and natural gas exploration will be found and work will be done in this area.

· Renewable Energy:- Renewal energy will be used more and more in near future, different sources will be identified and used.

· Artificial Intelligence :- machines having human like intelligence will be created and will become part of our day today life. Expertise on this area will be required to make it possible in future.

Besides all these above mentioned technologies many more will be evolving as per its applicability in different sectors. One has to identify the disruptive technologies or respective sector where he/she wish to peruse its career and keep on updating/upgrading its skills .

Dr. Sapna Sinha
Asst. Director, AIIT

· Dr. Sapna Sinha is Ph.D. in Computer Science Engineering, having more than 19 years of experience in Academia and Industry.

· She has authored several research   papers , book chapters in reputed journals indexed in Scopus.

· Her area of expertise is Data Mining, Networking, Big Data Analytics, Network Security; she has also guided students of M.Tech. and MCA.

MATRA
VANDAN
SWATANTRA
ABHINANDAN

INDEPENDENCE DAY CELEBRATION AT AIIT

Date of Conduct: 14th August 2019
Student Coordinator: Aman Gupta
Student Organizing Team: Mohit Suri, Siddharth Gupta, Abhiniza Ahluwalia, Shwena Goyal, Muskan Gupta

"And they who for their country die shall fill an honored grave, for glory lights the soldier's tomb, and beauty weeps the brave"

—Joseph Drake

The Independence Day commemorates the brave young men who gave up their lives to liberate India from the manacles of thralldom. The celebrations of 73rd Independence Day flavored with patriotic fervor, zeal and zest made it a very unforgettable occasion. The whole ambience vibrated with the festivity, decoration of the premises of AIIT. The celebration was marked with the benign presence of esteemed Chief Guests Dr Ajay Rana (Director, AIIT) accompanied by Dr. Laxmi Ahuja (Deputy Director, AIIT) , Dr. Sapna Sinha(Deputy Director, AIIT) and the faculty members of AIIT. The audience present could savor & feel the ecstasy of liberated spirit, free from the bondage of restrictive practices of constricting evils, stalking our nation.

To commemorate the sovereignty of our country, Dr. Ajay Rana unfurled the Tricolour in the backdrop of melodious notes of the Vande Mataram (Our National Song). The cultural program, henceforth, commenced. The spirit of freedom and nationalism was well exhibited by the students of AIIT through a spectrum of patriotic songs and dances and poem showcasing the feelings of a mother (through the song luka chupi bhut hui), feelings of pride for the soil(through the song Teri Mitti), and felt the energy with the dance (vande mataram). Moreover during the function, committed to the task of nation building, both faculty and students at AIIT pledged to serve their motherland through spreading education and serving the community. Our program anchors also shared inspirational quotes on Freedom and expressed their views on 'What does Freedom Mean ?'

Dr. Ajay Rana left no stone unturned to infuse in the students, a feeling of undying love for their country. According to him, 'The patriot's blood is the seed of freedom's tree. Also, it is true duty of each & every citizen to promote and protect the dignity of the Nation".
India is a unique blend of diverse religions, languages, cultures, faiths, beliefs rituals and practices which were portrayed by a small cultural program. In the end of the ceremony, sweet-balls (laddoos) were distributed among the students.
The Independence Day has a great importance in every citizen's life. This day reminds us every year that freedom is sacred and citizens must do everything to ensure that it shall not be endangered.

JAI HIND !!!
JAI BHARAT !!!

Blue Print Design Club

Objective:

This program aims to acquaint the members with the purpose of the design club, role of an individual as a member and introduce the members to the club president. The program also aims to gather suggestions and ideas of the club members to make it an ideal club and to plan upcoming sessions.

Methodology:

An interactive session was conducted, introducing the students about the Blue Print Design Club, presenting the ideas through a Keynote. The views of the members of the club were discussed, about the functioning of the club.

How students will apply in real life:

- Students gained knowledge on Design club.
- Students understood the proper functioning of the club.
- Students recognized their role in the club.

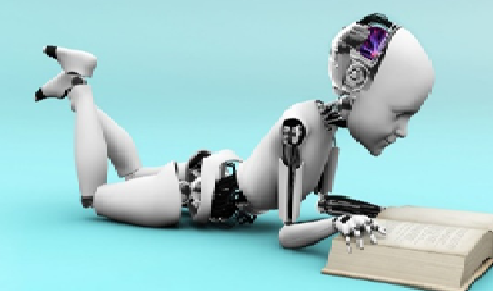**Details of the activity:**

The session started by greeting the new members of the club. Mr. Inder Deep Singh, the president of the Design Club, introduced the club and explained need of the club . The presentation also highlighted the design work done by the president himself just so the students could know their roles as a member and the scope of learning in the club. Further, he asked members to share the reason of joining and their expectations from this club. Afterwards, they came to a conclusion about the next session to be held as a tutorial session.

Students learning outcome:

- The session sparked an interest for design.
- The students learned the importance and applications of design.
- The students learned about various design softwares.
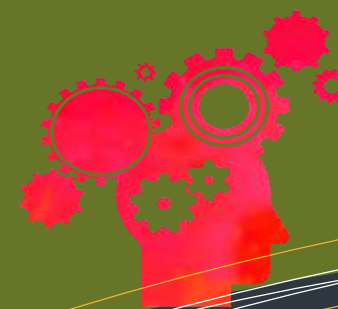
Machine Learning

Major Methods Of Machine Learning :
- Supervised Learning
- Unsupervised Learning
- Semi-Supervised Learning
- Reinforcement Learning

Basic Classification Algorithms of Machine Learning :
- Naïve Bayes
- Logistic Regression
- Stochastic Gradient Descent
- K-Nearest Neighbors
- Decision Tree
- Random Forest
- Support Vector Machine

Basic Systems Of Machine Learning :
- Neural Networks
- Fuzzy Logics
- Neuro-Fuzzy Systems

Machine Learning : Is it Important ?

1) Firstly, we need to know "**What ML is?**". *Machine Learning* is a technique that allows the system to automatically learn and improve from experience. When exposed to new data, these applications learn, grow, change and develop by themselves. Basically, application learn from previous computaions and transactions and use "pattern recognition" to produce reliable results.

2) **Why Machine Learning ?** In todays world of highly competitive industries, *time, cost* and *quality of the product* plays a vital role. To enhance the quality the source codes are becoming more complex, hence enormously increasing the chances of human error in quality testing. To overcome this issue Machine Learning is an ultimate solution to ensure quality of the product by automating the testing phase.
Second major secenario is "Data Analysis", this is one of the biggest field of employement in today's era. Traditionally, data analysis was trial and error-based, an approach that becomes impossible when data sets are large and heterogeneous. Machine Learning provides smart alternatives to analyzing vast volumes of data. By developing fast and efficient algorithms and data-driven models for real-time processing of data, Machine Learning can produce accurate results and analysis.

3) **Day-to-Day life Applications of Machine Learning ?** The self-driving Google car; cyber fraud detection; and, online recommendation engines from Facebook, Netflix, and Amazon.Virtual Personal Assistant : Siri and Alexa, Predictions While Commuting : Traffic prediction, Online transportation networks, etc., Video Surveillance, Social Media Surivces : Face recognition, similar pins, etc., Email Spam and Malware Filtering, Online customer support, Online fraud detection, Search engine result refining, Product recommendations and many more.

4) Since **Machine Learning** covers almost every field then there must be a **Question** in your mind that "**Why Data Mining and Deep Learning is in use what is the difference between these three ?**" here is the answer : *Data mining* discovers previously unknown patterns and knowledgewhereas *Machine Learning* reproduces known patterns and knowledge, **on the other hand, Deep Learning** uses advanced computing power and special types of neural networks and applies them to large amounts of data to learn, understand, and identify complicated patterns.
"A baby learns to crawl, walk and then run. We are in the crawling stage when it comes to applying machine learning." ~**Dave Waters**

Priyaank Sinha
MCA 3rd Sem

WORKSHOP ON IOT & DRONES

Objective:
This program aims at providing an opportunity for participants to understand the concept of IOT and its application and enrich their knowledge and skills and to implement it in daily life with hands on sessions using ARDUINO and Raspberry Pi.

Methodology:
The students were introduced to IoT, sensor types and their applications through an interactive session with them. A hands-on session was also conducted with ARDUINO and the sensors for deeper understanding.

Details of the activity:
A two days interactive session was held with Dr. Gaurav Singal (Assistant Professor, CSE, Bennett University), who explained the use of IoT in the devices around us. The workshop started with brief introduction about IoT and its importance. Further it initiated hardware description which is used in the technology. The hardware used was a microcontroller that is "Arduino Mega 2560" There was also various sensors and hardware components provided in the workshop. They presented how sensors can be used with in IoT and also in Artificial Intelligence.

Following are the hardwares used in the workshop: -
Arduino Mega 2560(Microcontroller), LED's and register, Ultrasonic sensor, PIR sensor, Keypad module, Relay module, L298N motor driver, Basic two-wheel drone chassis with 300 rpm DC motors.
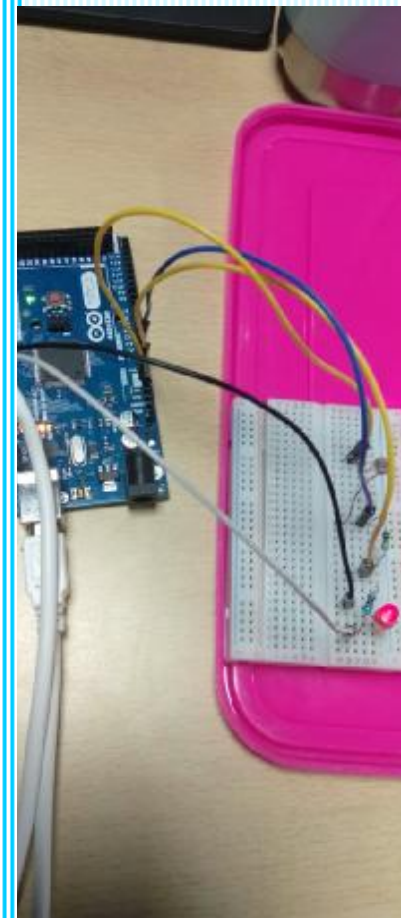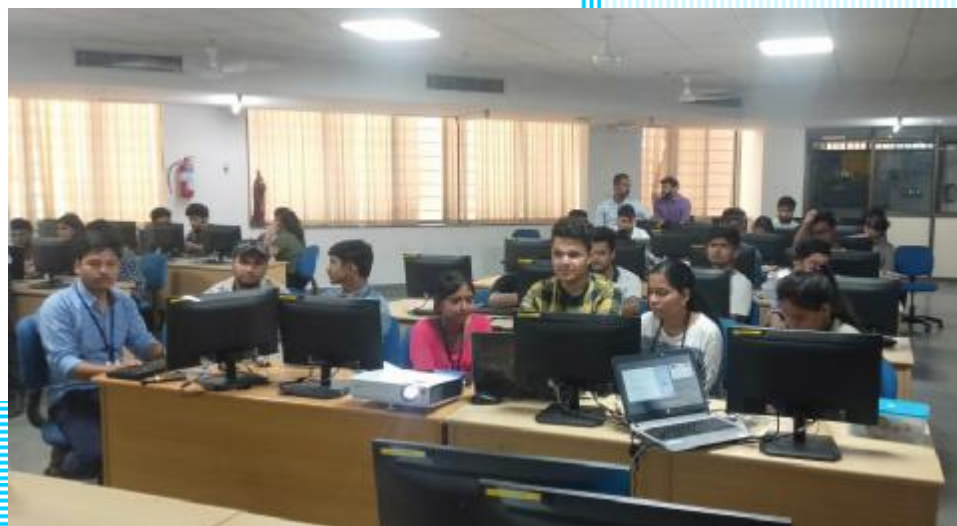
At last they introduced a "Raspberry Pi" which is a microprocessor or minicomputer used for hardware projects. This facilitate various feature like Arduino but also has capability to install an Operating System in it. They concluded the session by giving a very descriptive presentation on "Flying Drones" and "UAV (Unmanned Aerial Vehicle)".

He also covered the application of droneds in the industryas well as in society. "Automated drones are capable of completing a wide range of applications. Automated drones can be used in oil & gas facilities for security, Surveillance, emergency response and infrastructure inspection. In sea ports, drones can perform applications such as mapping, surveying, operational oversight , and port monitoring and traffic control. In mining operations, drones can be utilized in stockpile management, tailing dams, inspection and more," he said.

Student learning outcome:
Students gained knowledge on Internet of Things (IoT).
Students acquired skills to develop application and projects
Students gained practical knowledge on how to interface various kind of sensors.
Students acquired knowledge on RASPBERRY PI and ARDIUNIO an performed practical experiments along with the demonstration of drones where they came to know about some of the latest technologies in this niche

How Students will apply in real life:
With the knowledge and skill-set that they have acquired, they will be able to understand the deeper concept of IoT, Cloud computing and provide solutions to real-life problems of different fields like agriculture, quality control, security, lifestyle, etc. in less cost.

NETWORK OF EXTERNALITIES & E-BUSINESS MARKETPLACE

By- CA Vinod Kumar Sharma

The Internet business models are the basic bilateral marketplace connecting group of buyers and a group of sellers via a technological intermediary like a website or mobile app for a transaction fee by making it easier, faster, or more powerful than the traditional method.

Ebay was the first major two-sided marketplace achievement by making it possible to buy and sell anything to anyone on the planet. Today, companies like Uber and Airbnb have made this space and model even more popular.

Airbnb has made it possible to book or rent out a room to/from anyone on the planet and Uber has made it possible by allowing its taxi drivers and passengers to find each other in real time. Companies like Ebay, Uber and Airbnb have enhanced upon the understanding and economics of the system and technology in place. Understanding the dynamics of bilateral marketplace businesses:

Understanding and fulfilling the below given sets makes a good investment in bilateral marketplace with high success rate.

· Does the marketplace offers a qualitatively better customer experience?
· Does it provide an economic advantage?
· Can the technology strengthen the marketplace and make it more powerful?
· The current market status – Organized or highly fragmented.
· The market size
· Market expandability
· Customers transaction frequency
· The Revenue model of the marketplace
· Network of externalities (Does adding to the network make the network more powerful?)

Uber is one of the fastest-growing and most debateable start-ups of Silicon Valley as it has always upset expectations.

BUSINESS MODEL OF UBER

The core value of any marketplace lies in reliability.
Business model of Uber is based on faster pickup times, more drivers on the road, and possibly lower prices for commuters. It has become more valuable by expanding its network and operations.
In a marketplace "supply" can meet "demand" either through a loosely-organized, semi-random process of discovery, or through a direct steering by a middleman.

Traditional cabs were dependent on taxi stands, centralized senders to find a fare and they have no other way to know where to go next as a result they only have a passenger in the car 30–50% of the time. (Poor Availability)

Also, cabs assemble in urban centres and high-transit areas, leaving outer divisions, suburbs, and other remote areas under served. Commuters in these areas are often unable to get a cab at all, or have to wait for a long. (Poor Supply)

Uber allows users to request and schedule their rides directly using the app. The nearest driver is forwarded to requested location, and user can be addressed again immediately after drop-off, creating:
· Better supply allocation for drivers.
· Higher supply for commuters.

The business model of Uber meets the fluctuating levels of demand with an optimal level of supply. It ramps up the prices in times of low supply and ensures that drivers are on the road and passengers are getting picked up.

Uber besides increasing the supply to high-demand areas also uses surge pricing that helps in regulating the customer demand, as those willing to pay a higher price will find the means of transportation, while others will have to opt for other means.

The dynamic or surge pricing helps in creating liquidity by providing a financial incentive to drivers for changing location. Drivers receive a notification about surge pricing status on or off for a specific location or area.

The Price discovery or the Surge (dynamic) pricing is one of the strong pillars of the Uber business model.

The autonomous self-driven vehicles could transform Uber's business model further as it is already experimenting with AI and Deep Learning technologies. Uber is testing with strategies of adding more value onto its logistics network. The business model of Uber since inception has engaged in the same basic dynamics. The two biggest initiatives Uber Pool and Uber Eats are aimed in increasing the driver utilization.

CHALLENGES AHEAD:
Business model of Uber is very capital efficient, but it continues to tussle with its costs. The Uber costs are driven by a number of factors:

1. Expansion Cost, the early mover advantage
2. Competing with established-capitalized local competitors.
3. Driver retention with high churn rate.

Network Externalities -

When the value of a technology, product, or service depends upon the number of other entities using it in other words the fringe social benefit of one more person joining the "network" is bigger than the marginal private benefit.
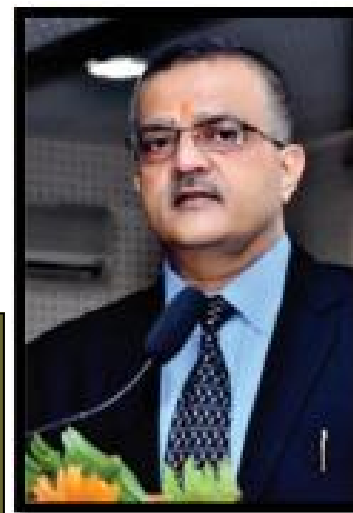
Mr. Vinod Kumar

Experienced Entrepreneur, Chartered Accountant & Academician engaged in Higher Education Management, Mentoring and Training for over 25 years with extensive Educational & administrative experience, interested in Business Management, Educational Technology & Global Education.

· **Director**
Jagran Institute of Management – Kanpur
(an initiative of Dainik Jagran world largest read a daily newspaper)
July 2007 – October 2017

· **Assistant Director (Dean Academics)**
Jagran Institute of Management – Kanpur
July 2006 – June 2007

· **Associate Professor**
Dr. Gaur Hari Singhania Institute of Management and Research
July 2003 – June 2006

· **Managing Director and Partner Center** for Computing & Information Technology - CCIT
1990 – 2001

SANGATHAN

Every year, Amity campuses across India, participate in Sangathan, a month long mega event which culminates in the founder's day celebration observed in the honour of Dr. Ashok K Chauhan (the Founder President).

Students compete in various sports and games including - Badminton, Squash, Basketball, Volleyball, Cricket, Chess, Swimming, Tug of war to clinch the much coveted trophies.

Boys Faculty coordinator - Dr. Sandeep Mathur - "Winning or losing is not important but playing with happiness is"

Girls Faculty coordinator - Mrs. Ginni Arora - "Sports is a key to happiness leading to the pleasurable life, the engaged life and the meaningful life"

AIIT at Sangathan

Dr Sandeep Mathur

- Vibrant and dynamic 12 years experience in Academics

- Specialization in data analytics and requirement modeling

- Program leader

- Sports coordinator

Significance of
SPORTS

The significance of games throughout one's life is important and has numerous physical and emotional wellness benefits. In universities, the significance is given to sports to make the general advancement of students and set them up to face each of the difficulties of life. It improves their capacity with the goal that they can perform better in their scholastics and accomplish an incredible objective. The significance of games can be effectively comprehended by the way that different games are sorted out on national and universal stages and sportspersons speak to their nations on these occasions for the pride of their country.

Sports likewise assume an indispensable job in creating esteems and common trust. They help us to take an immediate arrangement and furthermore upgrade our perspective. The sportsmanship or the sportsman soul which creates during games, instructs us to acknowledge triumph or annihilation in a smooth way with being conscious to other people. The game additionally sets us up to face the difficulties of life in an extremely positive and quiet way. Sports like Kho-Kho, Kabbadi, Football and so on build up the physical wellness in a person by reinforcing their muscles and bones.

Game is a standout amongst other exercises which keeps up the general wellness of a person. Connecting consistently in different games forestalls different endless illnesses and creates sound bones, effective heart and improves lung capacities. It oversees weight, controls diabetes, improves blood dissemination and controls the feeling of anxiety. Sports lead to a very much adjusted mental and physical development and tones up muscles and reinforce bones. For developing youngsters, sports have an exceptionally basic impact in building up their body and brain. It likewise improves their scholastic level and makes them alert and mindful. Sports can likewise make a critical commitment to the prosperity of the individuals in driving a solid way of life. Normal games and physical exercise could likewise treat different transferable and non-transmittable infections and it is additionally a savvy strategy to improve the strength of the overall population in creating just as created nations.

Sports not just build up our physical quality and keep us fit however it likewise accomplishes more to our general character. It helps in character building, creating initiative aptitudes and improving objective setting capacities. An individual who connects more in games action consistently will consequently have improved confidence, expanded social communication and stronger characteristics which will gain him to ground emphatically in his life. Sports cause kids to learn esteems, morals, order, duty and build up a feeling of shared trust and certainty. It additionally makes them increasingly responsible and improves their manner of thinking. The most significant part of games in character building is that it shows sportsmanship which makes an individual face good and bad times throughout his life all the more nimbly and makes him conscious to other people. A sportsperson will consistently lead his existence with an uplifting frame of mind, virtues and avoiding every one of the shades of malice of the general public. The most significant thing which significantly adds to a country's improvement in harmony and solidarity and the game assumes a significant job in-country working by making a feeling of unity and fellowship among its natives. It constructs a feeling of collaboration and group working among its kin with the goal that they can join and work for the advancement of the nation. Sports assemble a solid character and raise the certainty level in the young people of a nation so they can confront the difficulties of the focused world and rise fruitful to contribute to the country's improvement.

The game additionally lifts the wellbeing standard of a nation. The nation which has a high wellbeing standard consistently has a decent personal satisfaction and calm condition. The nation with sound living will have fewer issues when contrasted with the nation with an unfortunate way of life. The ubiquity of games likewise offers to ascend to setting up of different games ventures which enhances the nation's economy and expands the status of the business. The income age potential from these enterprises is exceptionally high which could add to the economy in various ways.

As should be obvious that game isn't just a mechanism of amusement or an action of recreation time however it likewise assumes significant jobs in all the point of view of life. It is a result of the significance of games that there are different national and worldwide games composed the nation over just as on the planet. These occasions help to scaffold hole and lessen strain among nations and make the worldwide group of spectators witness the different customs and culture of the world. It shows the significance of order, promptness, obligation and being deferential to other people. The game establishes the framework of solid people and builds up their abilities and characters in structure an all-around created and versatile country.

ROXANE MADE THIS
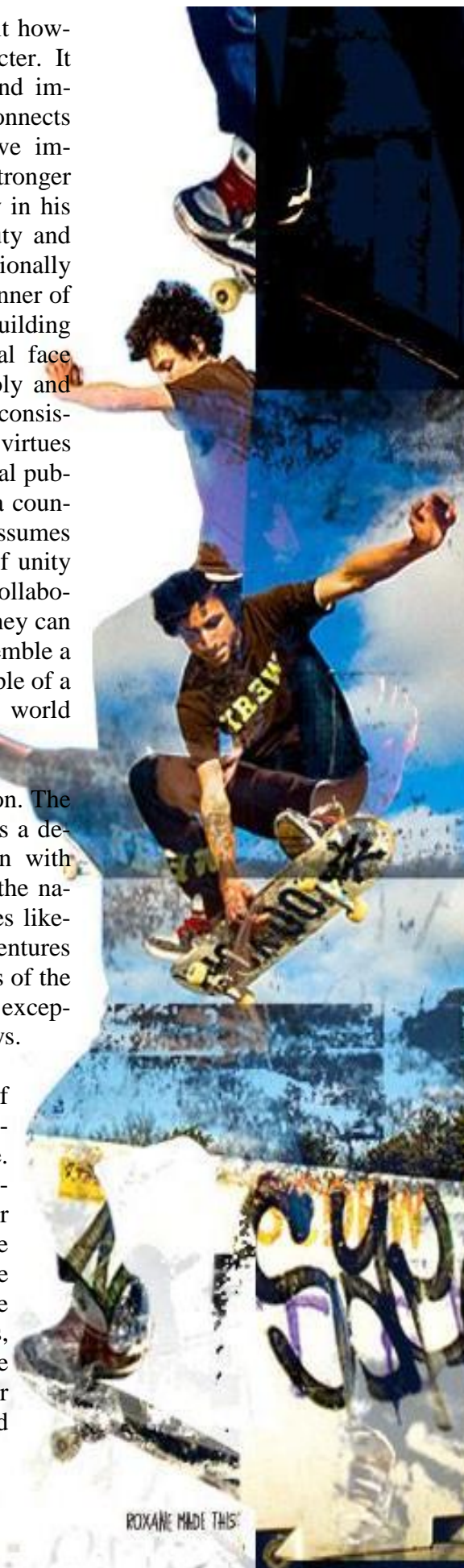
Huawei, reportedly, launching its own 'Google Maps' replacement in October

Huawei's slow untethering of itself from a reliance on Google, and specifically on Google's Android mobile operating system, is sort of underway now — "sort of" being the key phrase since it's still not clear if Huawei will stay cut off from Google indefinitely. But that's also why the company has gone ahead and worked up a homegrown OS that it says it can bring to its handsets eventually, if needed, as a replacement for Android.

Meanwhile, after having finally unveiled that OS in recent days, Huawei is apparently about to take another step forward in its great decoupling from Google. Next up is a reveal supposedly coming in October of Huawei's potential alternative to Google Maps, called Map Kit.

This news comes from the English-language, state-run newspaper *China Daily*, which notes that Map Kit is-

n't meant to be used by consumers but is instead a solution for software developers to build applications based on Huawei's mapping technology.

Yandex, the so-called Google of Russia, as well as travel website Booking Holdings, are said to be among the companies teaming up with Huawei to use Map Kit, which will reportedly be available in multiple countries and some 40 languages. Zhang Pingan, president of cloud services at Huawei's consumer business group, told *China Daily* that among the features map kit will offer are real-time traffic conditions and "a highly sophisticated navigation system" that can spot a car changing lanes, as well as support for augmented reality mapping.

One of the immediate needs that became clear when Huawei finally revealed its HarmonyOS last week is

that it needs a correspondingly robust ecosystem of mobile applications for the OS to have any chance of taking hold at all. What Huawei is apparently planning with its Map Kit seems to be a way of addressing that — by providing a framework for software developers to tap into Huawei's mapping capabilities to build all manner of products.

For now, of course, this shouldn't be seen as some kind of move by Huawei to try and dethrone the pervasiveness of Google Maps. The company line out of Huawei is also, still, that it wants to keep working with Google. Map Kit would seem to be another backup tool in its assortment of multiple Plan B options should the company have to finally, officially, figure out a permanent post-Google future.

Microsoft Interview Puzzles #5 - 2 piles of 100 coins puzzle

You have 100 coins laying flat on a table, each with a head side and a tail side. 10 of them are heads up, 90 are tails up.
You can't feel, see or in any other way find out which side is up.

Split the coins into two piles such that there are the same number of heads in each pile.

How did you do it?

Send in your answer on the contact details mentioned.

Microsoft Interview Puzzles
#1 Robots on a line puzzle
ANSWER

Two robots are placed at different points on a straight line of infinite length. When they are first placed down, they each spray out some oil to mark their starting points.

You must program each robot to ensure that the robots will eventually crash into each other. A program can consist of the following four instructions:

· Go left one space
· Go right one space
· Skip the next instruction if there is oil in my current spot
· Go to a label

[Note that a "label" is a name that refers to a line of your code. For example, you could label the third line of your program "surveying". Then, the instruction "goto surveying" would jump to line 3 and start executing from there on the next cycle.]

A robot will carry out one instruction per second. Both robots need not have the same program. Note that you won't know ahead of time which robot is on the left and which is

Algorithm-

[Label: move_slowly]
1 Move Right
2 Move Right
3 Move Left
4 Skip Next Instruction If On Oil
5 GOTO move_slowly

[Label: move_quickly]

Don't wait for opportunity. Create it!

FOR ANY QUERY & SUGGESTIONS -

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Why
Amity is Amity?

www.amity.edu/aiit