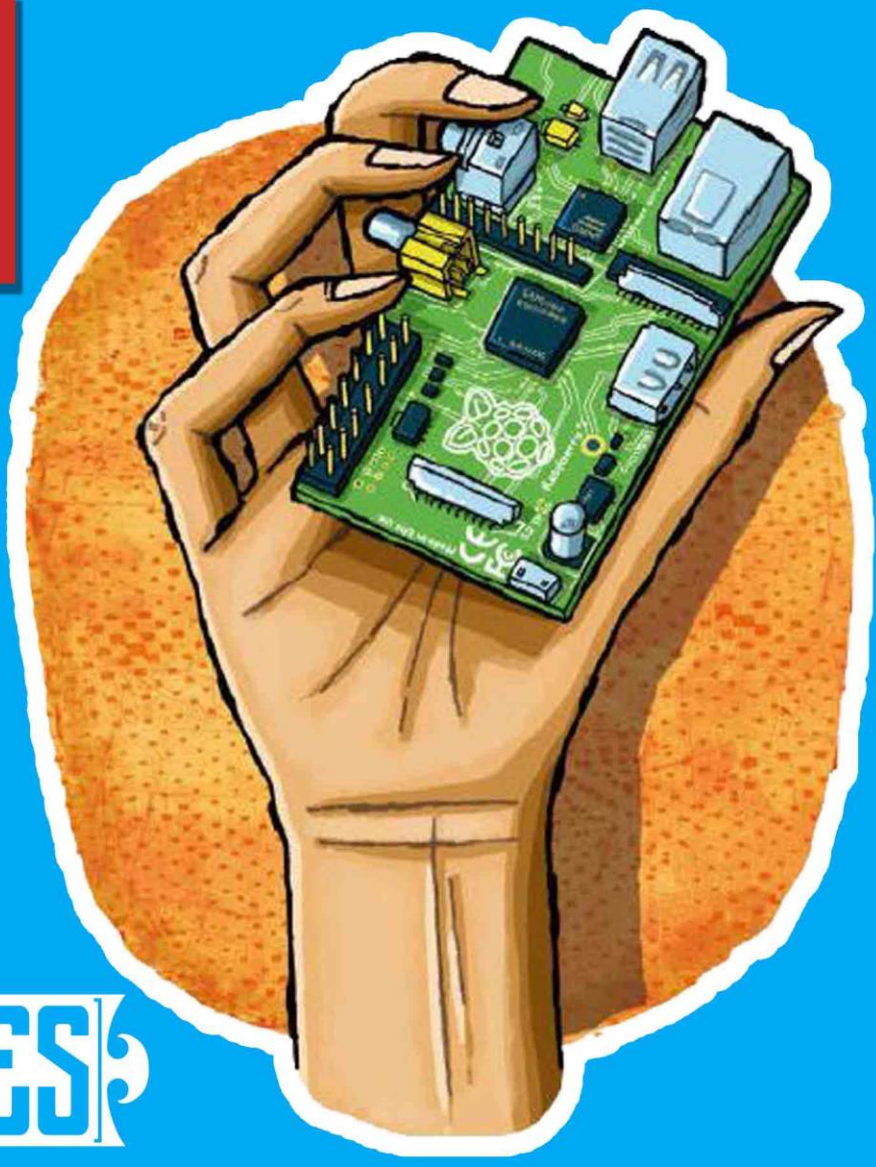
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CSE insight!

AUGUST, 2015

MEET THE RASPBERRY PI



KNOW ABOUT BIG DATA

TOP TEN TECHNOLOGIES

GGITS TOUCH, ALEIN DASH, PRODIGIES OF GYAN GANGA AND MORE..

GYAN GANGA

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FROM THE EDITOR'S DESK..

Do you remember the time when we flipped through a hundred pages, through tens of books to learn about a single topic? Today, all we need is the Internet. A single search on any topic provides us with millions of information to refer to. Technology has become an inevitable part of our daily lives. Technology is not what it was some time back. And technology will not be the same as it seems today.

We , the Computer Science department of GGITS , are proud to announce the publishing of our magazine "CSE Insight", where we enumerate our efforts to strive towards technical eminence. Our endeavor is to preserve the momentum of the ever improving technological world and mould the minds of the students so that they enter the industry with a spark of innovation and creativity.

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PULISHER:
DEPARTMENT OF CSE, GGITS

VISION

- To be a leading centre of technical education in computer science in India.
- To produce future citizens of the country to meet the upcoming global challenges.

MISSON

- Empowering students with the state of art facilities and knowledge for the welfare of the society and the nation.
- Prepare students as per the ever changing need of the industry.
- To inculcate ethical values in the minds of emerging engineers.

PROGRAM EDUCATIONAL OBJECTIVES

PEO 1. Graduates will practice their profession with confidence and global Competitiveness and make intellectual contributions to it.

PEO 2. Graduates will work as teams on multidisciplinary projects with effective communication skills and leadership qualities.

PEO 3. Graduates will adapt in their profession with social awareness, ethics and responsibility.

PEO 4. Graduates will pursue advanced study and research.

PROGRAM OUTCOMES

Students should be able to:

PO 1. apply knowledge of computing and mathematics to computer science problems.

PO 2. analyze a problem and identify and define the computing requirements appropriate to its solution.

PO 3. design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.

PO 4. function effectively on teams to accomplish a common goal.

PO 5. function to understand professional, ethical, legal, security and social issues and responsibilities.

PO 6. communicate effectively with a range of audiences.

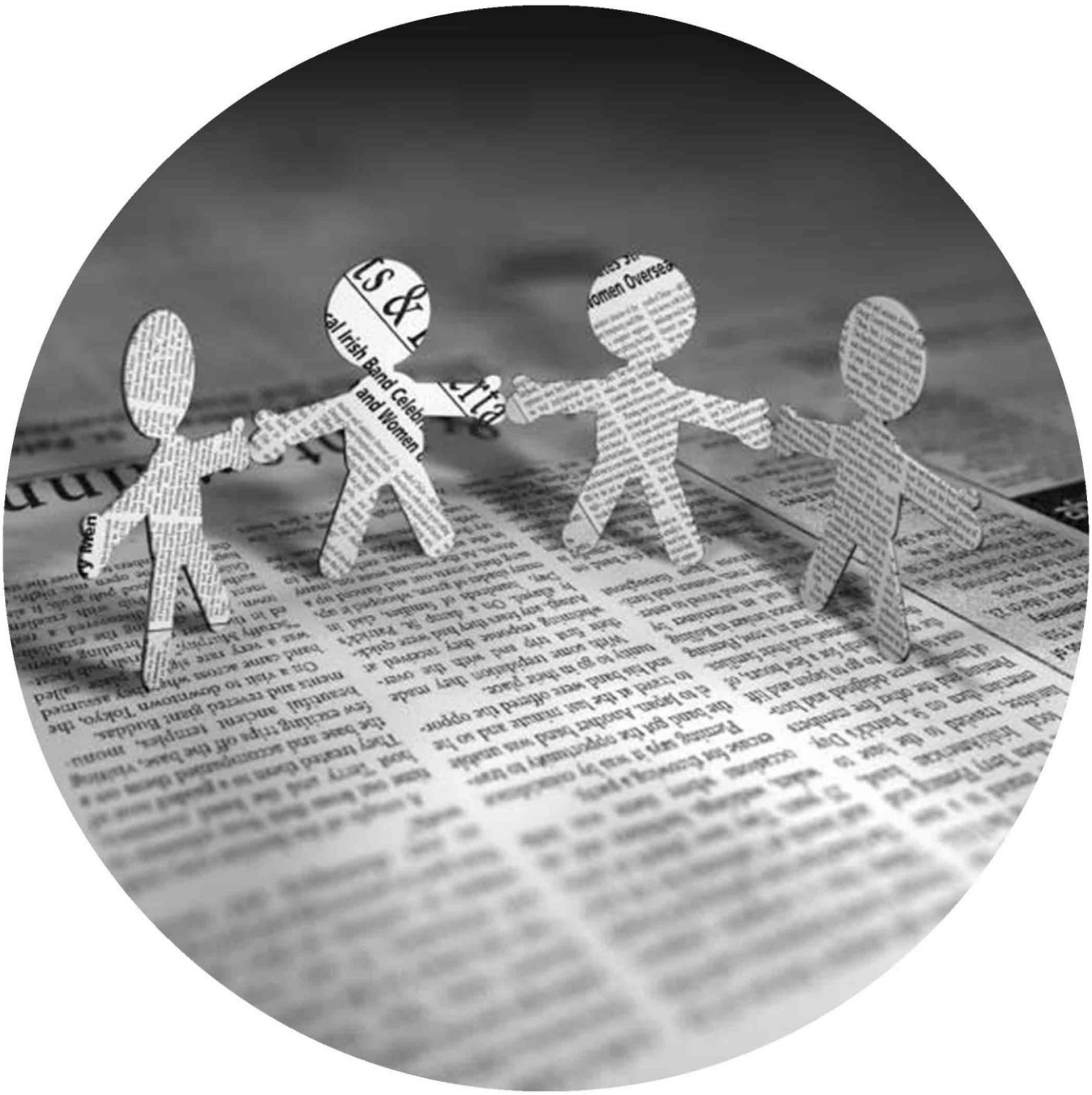
PO 7. analyze the local and global impact of computing on individuals, organizations and society.

PO 8. engage in continuing professional development.

PO 9. use current techniques, skills and tools necessary for computing practices.

PO 10. apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems that demonstrate comprehension of the tradeoffs involved in design choices.

PO 11. apply design and development principles in the construction of software systems of varying complexity.



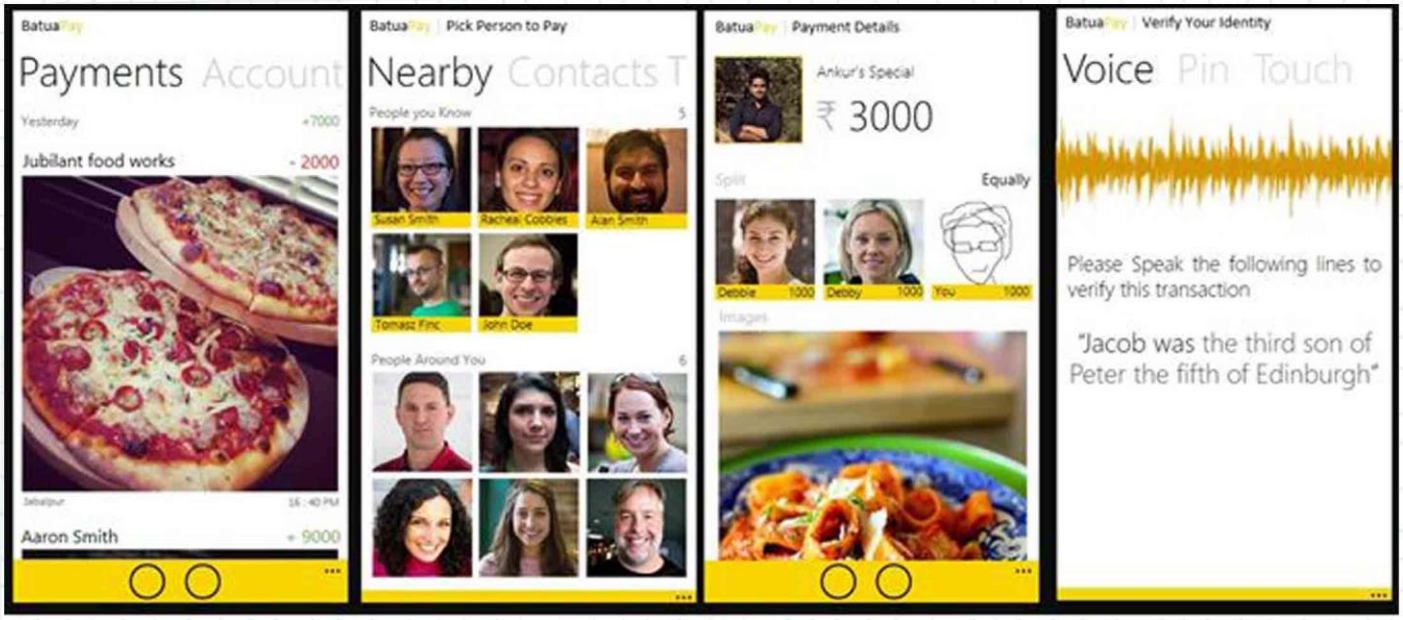
STUDENT'S ARTICLES

Experience at imagine cup 2015

-Deepali Kushwaha, Purvi Jain, Abhishek Hingnikar

To innovate is an inseparable part of the human nature throughout our lives we are always innovating things may it be building a product to change the world or to fix a household problem. Microsoft believes strongly in supporting innovation at every level and hence they organize a global event every year to inspire and empower students from across the world under the common banner of Microsoft Student & Microsoft Innovation Centers known as the Microsoft Imagine Cup. The event occurs globally in multiple countries parallely and provides a brainstorming & learning environment second to none.

Our product started as a simple expense tracker in January which immediately shed light on the fragmentation and non standardization of payments in India. We then decided to solve a hard problem we all face in our day to day life "the problem of cash-less". Our solution was to use IMPS & Credit / Debit Cards facilities provided by all the major banks and to connect them with a system that ensures your privacy and still transfer your money in real time fashion. During the course of 3 months from January to March we built numerous prototypes and multiple applications to understand the flow of our entire model the final product is a simple application where you add your cards or bank accounts in a thermodynamics inspired source to sink flow of cash, where our app acts as a mediator providing transparency &-yet ensuring your privacy and anonymity to the beneficiary. In simple words the cards you add act as a source when you are paying and a sink of cash when you are receiving to pay someone you could either tap your device to theirs or use their phone number to send money to them immediately. For authentication we voice fingerprinted users on device level furthermore every transaction being made on the network has to be verified on the device which makes it impenetrable.



App at glance (L - R : Timeline, Pay, Bill Details, Voice Authentication)

April 10th, we were extremely excited to find out that we have been selected for National Finals an event that was organized in last week of the month at the well known NGF College in Gurgaon and we were accommodated for at the prestigious Pakiza Palace nearby. Under the blazing hot sun of Delhi our feets and hands were cold through the entire journey as we prepared our project and our presentations in the Innovation Challenge. The jury was a multi star panel with veterans from the industry from business analysts to technical masterminds, our competition were no less ranging from a device to analyze a person's mind waves to control a wheelchair to a braille to english converter built into a smartphone every team had a vision that can change fundamentals of life for millions across the world.

Finally the moment came which we all awaited we entered "ground zero" better known as the presentation room. The jury questioned our business model went in depth through our deployment strategy and gave us extremely valuable suggestions for the future of the product they also complimented us for our "incredible team work". Later that day we were presented by a cultural fest organized in the college campus in the evening. As a bonus add on the college had a radio of its own and we were allowed to present our products "ON AIR" to mass array of people.

The next day was the result declaration and presentation of products to many industry veterans, we had the opportunity to present our product to Joseph Landes, General Manager (Developer and Platform Evangelism) MS India, Ritesh Agrawal (Founder & CEO OYO Rooms) and enjoyed an extremely knowledgeable panel discussion later by multiple industry veterans. We also had a brief discussion with the extremely smart "Cortana" developers and came across some interesting future plans and made suggestions to the team as our product predominantly uses "Cortana" for voice powered transactions. Finally the results were announced and we won the 3rd position in National Finals \o/. The moment of victory cannot be expressed by words it was the feeling of accomplishment with realization of the road ahead of deploying the product in the masses which is out of scope of this article. As a follow up we got recognition by multiple national level tv-channels and got interviewed live on T.V. in the days to come.

Seconds before presentation

Presenting the product ON AIR !

Victory Shots (The Stage, The Event & Our college)

As a component to competitive event there was a fun side of the story, as we mentioned before the Imagine Cup is not a filter for ideas but a crucible which is heated with brainstorming. During the competitive 3 days we were allowed to interact with other like minded people and formed incredible friendships, unlike as others perceive people are extremely friendly and cohesive. We created very deep friendships with many teams across the event and celebrated our entire last night playing childhood games like damsharas, truth & dare and ice water (pathar pani, baraf pani). Personally we believe that Imagine Cup is truly unique because it is the only place where you would find artificial intelligence & childhood games at the same place , such flexibility - such exposure is second to none and is an experience teaches you lot! We are thankful to our friends, families and our college for their support and bestowing us with wisdom throughout the event. We strongly urge all the readers to give their best shot this year and participate in this global brainstorming event.

"Top 10 IT Technologies to be aware of"

-Arunima Banerjee, CSE VII SEM

Technologies have made great inroads in our everyday life and thinking. Today, Information Technology is a growing "Dynamic Sector" that offers several specializations that deals with the various aspects of the technology. One needs to catch up with the latest technologies to keep themselves updated. Let us see the top 10 trendy IT Technologies.

1. Cloud -: Cloud basically focuses on maximizing the effectiveness of the shared resources. Cloud provides users and enterprises with various capabilities to store and process their data. There are several data centers that deal with the data.

2. Big Data-: We live in a world increasingly driven by data. Big data describes a information management strategy that includes and integrates many new types of data and data management.

3. Internet-of-Things-: The Internet of Things (IoT) is increasing the connectedness of people and things on a scale that once was unimaginable. It is increasing interconnectivity of machines and personal smart devices.

4. Mobility-: Mobility is related to wireless networking for transfer of data. Mobility is somewhere related to mobile computing which specifies the human - computer interaction.

5. Artificial Intelligence-: Artificial Intelligence is the branch of computer science concerned with making computers behave like humans. Its specializations are robotics, neural systems etc.

6. Cyber Security-: It is also known as Computer security or IT security. It is the protection of information systems from theft or damage to the hardware, the software, and the information on them.

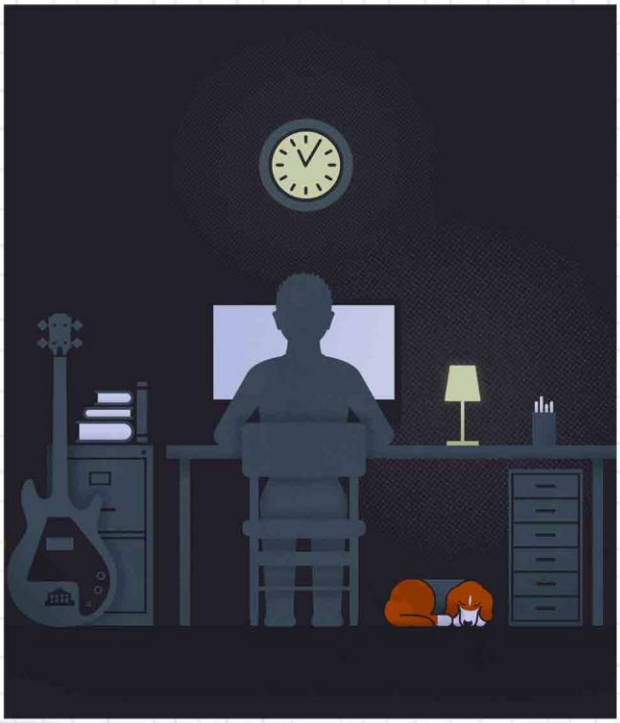
7. Social Media-: Today social media is so much popular among youths, there are many websites, forums, micro blogging, social networking, and wikis are among the different types of social media.

8. Bring Your Own Device(BYOD)-: It is also called as bring your own technology(BYOT), bring your own phone(BYOP) and bring your own PC (BYOPC) , this refers to the policy of permitting employees to bring personally owned mobile devices(laptops, tablets etc) to their workplaces to access privileged company.

9. Augmented Reality-: Augmented reality (AR) is a view of physical, real world environment whose elements are augmented by computer generated input such as sound, video, graphics or GPS data.

10. Voice Recognition-: It is a technology that deals with designing computer systems that can recognize spoken words.

These are top 10 trendy technologies we should be aware of. I hope this article would help technical students to learn about the IT world and its emerging worldwide technologies.



WHAT IS BIG DATA?

--SHUBHAM MINOCHA, CSE VII SEM

Traditionally, the term "big data" has been used to describe the massive volumes of data analyzed by huge organizations like Google or research science projects at NASA. But for most businesses, it's a relative term: "Big" depends on an organization's size. The point is more about finding new value within and outside conventional data sources. Two-thirds of the firms Tech Target surveyed are keeping more than a year's worth of data online—43% have more than three years' worth. Pushing the boundaries uncovers new value and opportunities, and "big" depends on where you start. Consider this description: Big data exceeds the reach of commonly used hardware environments and software tools to capture, manage and process it within a tolerable elapsed time for its user population.

For big data problems, size really is a relative measure, a constantly moving target depending on where you start. But 23% of survey respondents are already managing more than 10TB for analytics; one-third expect 100 or more concurrent users. Big data, and big usage, are already here. Several other elements contribute to the size challenge:

The user population is growing. The story often focuses on a few Ph.Ds. writing highly complex programs to run over petabytes of data while business users wait for answers. But this is far from the truth. Big data applications drive operations in finance, retail, social networking and telecommunications to serve hundreds or thousands of uers—both people and processes—inside and outside an organization. High rates of concurrent use are no longer out of reach.

Processors and the memory associated with them can contain just so much data at a time. Until recently, enormous financial commitments were required to acquire hardware l arger than imme diate needs to have "headroom." Today, however, blades with processors, memory and storage fit in racks and snap in on demand. They provide a more gradual scaling model that maps costs more closely to usage and enable "bigger" data volumes more easily and affordably. At the same time, software is catching up, leveraging memory better and using storage more intelligently

RASPBERRY.PI

-RADHIKA GUPTA, CSE V SEM

The raspberry pi is a low cost-credit card-sized computer that plugs into a computer monitor or TV,and uses a standard keyboard and mouse. It is a capable little device that enables people of all ages to explore computing, and to learn how to program in languages like scratch and python. It's capable doing everything you'd expect a desktop computer to do, from browsing word-processing and playing games.

What's more, the Raspberry Pi has the ability to interact with the outside world ,and has been used in a wide array of digital maker projects, from music machines and parent detectors to weather stations and tweeting birdhouses with infra-red cameras. The joy of the Raspberry Pi is that it's Linux power. The open source operating system called Raspbian offers all the amazing freedom and software that has been created over the last two decades and more.

PERIPHERALS:

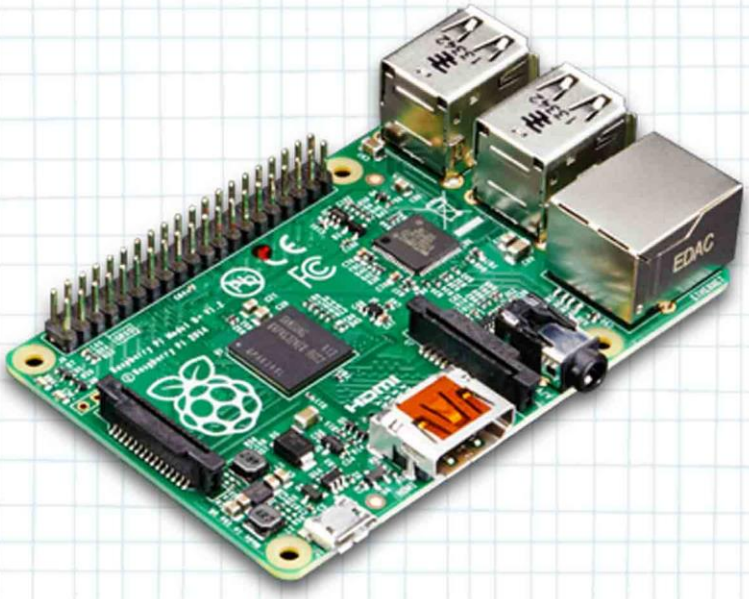
SD CARD

It might seem obvious, but before you can get started with the Raspberry Pi, you need to plug in lots of things. But getting those things right can make the whole process much easier.

The best place to start is with the SD card. This is because it's the most important peripheral you need to buy for your Raspberry Pi. These tiny rectangles with a chomped-off corner are for storing the OS, as they're the only device your Raspberry Pi can boot off.. We'd recommend going for a 4GB device to start with, and if you need more storage, use a USB storage device, such as an external hard drive. But a certain amount of capacity is essential, because you need at the very minimum 2GB (gigabytes) to install the default Rasbpian operating system.

POWER

We recommend powering the Pi solely from a micro-USB charger that's capable of atleast 1.2A. Any more than 1.2A won't cause problems, but any less may generate unpredictable behavior.



NETWORK

For installation and configuration, the Raspberry Pi needs to be connected to your home network. This is best done through the on-board Ethernet port, as long as your home hub is working, simply connecting an Ethernet cable between the two is all you need to do.

KEYBOARD AND MOUSE

YOU CAN connect a keyboard and mouse. Most models use a USB standard that means keyboards and mice will just work.

But you do need to make sure you connect these devices to a powered USB hub, as this will ensure there's not too much power drain on the Raspberry Pi itself.

DISPLAY AND SOUND

There are two connectors on the model B Raspberry Pi that are capable of sending a video signal to a display device. The yellow phono jack is for composite video and you can connect

this to a great number of television sets that usually have a yellow composite video-in port for external cameras or recorders.The modern HDMI connector on the board is much better suited to display duties. Another strength of the HDMI connector is that it can also carry the digital sound data from the Raspberry Pi. Your TV or amplifier will need to be compatible with this feature to work.

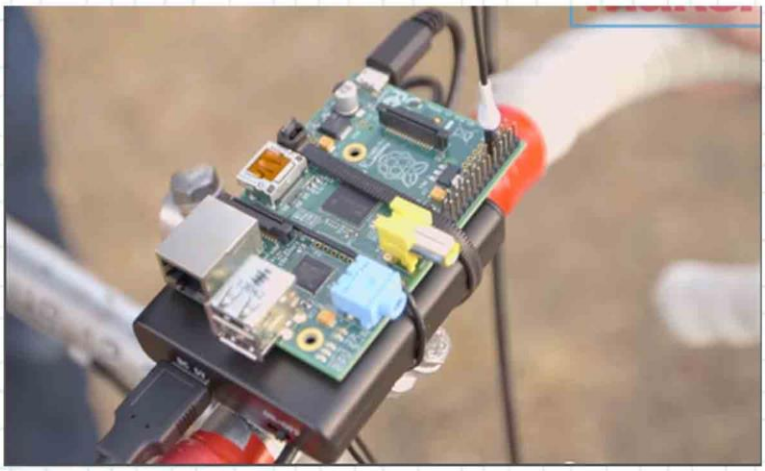
PROJECTS-RASPBERRY PI

WEATHER STATION FOR SCHOOLS

The Raspberry Pi Foundation has teamed up with Oracle to announce the Oracle Raspberry Pi Weather Station for schools. As a participating school you'll receive a free weather station kit and asked to build and commission a weather station with pupils from your school. The kits will be supported with a range of teaching materials coving computing and weather related topics.

PI-RATE RADIO

A simple, but effective hack from Make shows how you can turn your Raspberry Pi into a mobile FM transmitter to share your tunes with those around you. The beauty of this project is its simplicity. All you need is the Raspberry Pi basics—SD card, a power source, and the Raspberry Pi—plus a piece of wire for an antenna, some basic tools, and about an hour of your time.



PICROWAVE

Why bother owning a traditional microwave when you can swap out some innards and create your very own Pi-powered food nuker?

Developer Nathan Broadbent took his microwave apart, redesigned the touchpad, and added some new functions like voice control, a barcode scanner to access an online database of cooking times, a web-based interface for remote access, and auto-tweets for when the timer is done.

TOP 10 CLOUD TRENDS

-SHASHANK JAIN, CSE V SEM

1.The hybrid cloud evolution

The term "hybrid cloud" no longer just refers to a mix and match of traditional IT and cloud-based solutions. That is still part of the definition but really "hybrid" means a purpose-built cloud solution that incorporates a variety of cloud-based and traditional IT components specifically deployed to address a business need. This includes ability to scale and access resources on demand, business continuity features, cross data centre security and inclusion of development lifecycle from test/dev to deployment across these environments.

The ability to seamlessly and flexibly integrate different cloud environments requires robust software control facilities to programmatically manage the networks across virtual and multiple physical environments.

2. Blurring lines between public and private cloud

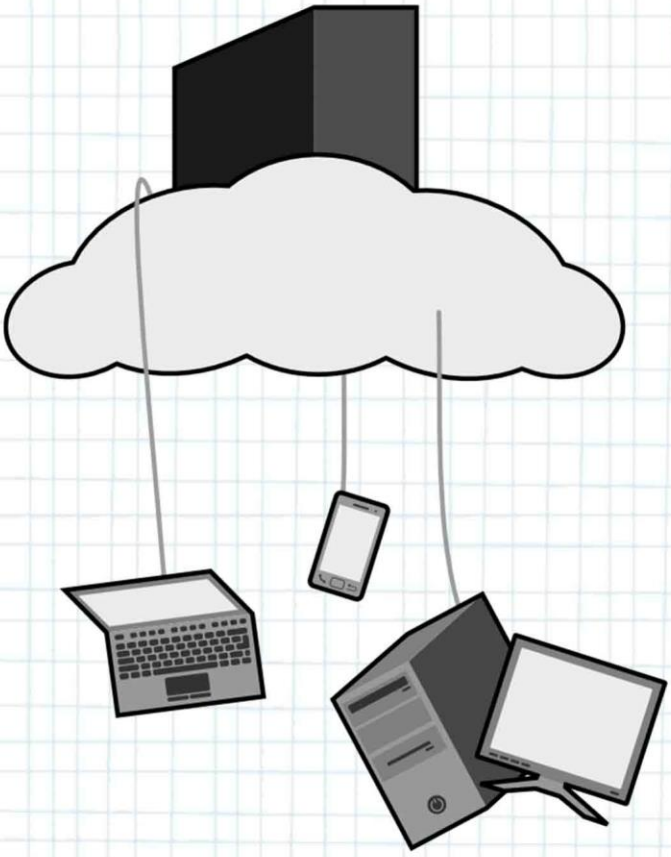
The conversation has always been about "either, or." The focus going forward will be on workloads vs. risk and that will lead to blurred solutions that incorporate public and private cloud services. As in the hybrid cloud above, the ability to manage and flexibly configure your cloud infrastructure in a rapid and automated way emerges as a dominant new pattern in complex and sophisticated cloud environments.

3. "Cloud First" Approach

Application development adopts a cloud first approach at the expense of traditional vertical deployment models. This horizontally scaled approach, built for the cloud, managed by DevOPS, is designed to operate within the strictures that cloud imposes and facilitates overcoming the objections enterprises still face in deploying to the cloud.

4. Flexible networking connectivity

Cloud and network are co-dependent. A cloud implementation can't be successful without reliable implementation can't be successful without reliable networking. However, network services should be fluid, like cloud services. Enterprises should be able to scale up and down network services to meet workload demand, usage and risk. The richness of the Open Systems Interconnection (OSI) stack, with multiple protocols and implementations of these protocols, requires this level of flexibility. Moreover, the ability to control these configurations requires the long promised value of network function virtualization (NFV) be recognized as a first class citizen in the cloud environment virtual stack.



5. Standard deployment of Hyper Converged Infrastructure

A new category of infrastructure, the Hyper Converged Infrastructure (HCI) promises scale and performance by integrating compute, storage and network into a high performance, stack management focused hardware platform. The advantage of these sorts of architectures is that it becomes possible to manage costs by scaling the legs of the platform together. HCI simplifies the manageability of the infrastructure by creating a better and more uniform platform experience. This creates opportunity and incentive to create a tightly integrated management platform. The capabilities of this platform yield the effective delivery of a "software defined everything" infrastructure.

6. Rise of "born in the cloud" enterprise applications

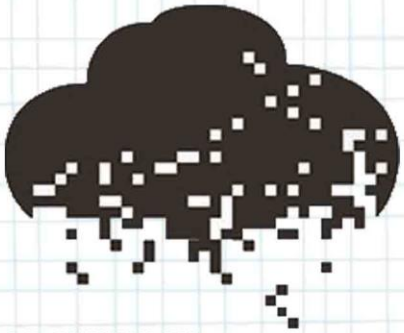
Enterprises are migrating legacy applications to the cloud but they also use cloud as the foundation for new, "cloud first" applications like high definition video and the Internet of Things. This represents significant opportunities for enterprises and cloud solutions. High bandwidth and high connectivity applications require controls for performance, security and feedback controls for cost management. As mentioned above, a flexible network is table stakes to succeed in this game.

7. DevOPS comes of age

Administrative control over the deployed stack has always been a battle between SysAdmin and developers. In the cloud the argument has been split by the introduction of a development focused Administrative function, DevOPS. The ability to provide governance and compliance control with an automated and agile approach to stack lifecycle management is a key attribute of the DevOPS function. New tooling is growing up in dozens of startups around the globe that leverages configuration management software, like Puppet, to control the full deployment in a reproducible, compliant and manageable way.

8. The world settles on OpenStack

As the OpenStack community has continued to evolve and mature the OpenStack offering, an amazing thing has happened; all the competitors have fallen away. There is only once choice standing. Happily that choice, OpenStack, offers a robust and mature cloud resource management environment. As cloud continues to evolve, varied and competitive offerings built on OpenStack will emerge and battle for primacy in the marketplace. The customer, wins in this discussion. Choice is competition, and competition is betterment.



9. Data as currency

These new cloud-first applications, whether horizontally scaled analytic engines or anything in the emerging IoT space, produce massive amounts of unstructured data. The cloud makes it easier to gather, store, distribute, analyse and share this ever-increasing amount of data at nearly limitless scale. The ability to leverage this data, both inside and outside the enterprise, will play a key role in business success. A new form of value emerges. nsight derived from data analytics becomes more than a driver to business insight, it becomes a new form of value and product unto itself. It's enabled by networking, it's enabled by applications and it's enabled by the cloud.

10. Enterprises move to global cloud deployments

There are no local businesses today. IT needs to support enterprises globally so cloud and networking services need to span the globe—with data centres and connectivity that can service multi-national businesses and customers. Customers live around the globe. Suppliers work around the globe. Opportunities exist in 6 of the continents and in all the cultures on the globe.

Internship Experience at Bhabha Atomic Research Centre (BARC), Mumbai.

-Ankita Sadani,
CSE VII SEM

Hi I'm Ankita Sadani, final year student in Computer Science Department. I did my summer internship in the TPD (Technical Physics Division) at Bhabha Atomic Research Center, Mumbai for 4 weeks. There was no stipend provided, it was a purely volunteered research internship once selected. I worked on "Cross-Compiler & Debugger for 8051 micro-controller". My guide made me work on the board in which microcontroller was placed and one could actually burn C programs into it and henceforth, watch its outcome on the board.

I had a great experience at BARC, not just academically but personally too. It helped me know how the world works. The work culture was great, but it had the environment of a particular government organization. Fortunately, my guide was an active member of the scientific fraternity of BARC. He had a history of bagging projects which were outsourced by organizations like ISRO, DRDO, etc. But when it comes to the lower staff, they had their fixed notions and followed a strict time-table.

The best thing about the work culture at BARC was that everybody worked sincerely towards the goals they were assigned. There were no loopholes in the research one had to do to make something work. The best thing about the internship, for me was the library. It was a storehouse of such tremendous information, and I confided in it. The campus is a city in itself. There is a km length long building, imagine that! I got the opportunity to visit Crystal Technology Section (CTS), where actual crystals were manufactured to be used in its various applications. I was lucky enough to visit the Computer Division too, where I saw the magnificent ANUPAM-Adhya Supercomputer. Wow! It was an amazing feeling to see the live supercomputer ever. The working hours were flexible, my mentor was extremely helping and polite. But since it was highly secured area and the highly confidential information, makes it difficult to be able to access the internet and again no mobile phones were allowed. Also, it has a highly bureaucratic system.

My gains in terms of intellectual capabilities and mindset, from this internship are:

– I got to manage things, like I had never done before, including time and money.

– Learned how to persuade people, increased my communication skills, and made new friends.

– The combined knowledge imparted by mentors, friendly discussions and library is definitely going to set a milestone in my ways of trying to understand things.

Lastly, I have learnt from the scientists at BARC that knowledge has no bounds and there is a long way to go and reckoned Robert Frost famous verses -

"The woods are lovely, dark and deep,
And there are many promises to keep,
And miles to go before I sleep,
And miles to go before I sleep."

STUDENT'S PROJECTS

Introducing college's first Android App

GGITS TOUCH

-SHIKHAR SHRIVASTAVA, SHUBHAM KHANDALKAR
CSE, VII SEM

Keeping pace with the technology and with a mission of providing students with state of the art facilities, GGITS proudly presents GGITS Touch.

An Android app developed by ShikharShrivastava and ShubhamKhandalkar, Students of 7th Semester CSE department, is a handy tool that adds expediency to a lot of conventional stuff. In a Material Design shell app provides an unprecedented Time Table Management Scheme, Dynamic push notifications to alert students of substantial notices', app has Knowledge boost BOT that regularly informs students of all the latest happening in the engineering world. With this it also provides students with lecture feeds, syllabus, time table and an e-handbook.

The app is deployed on Play Store and stands high with above 700 downloads and a rating of 4.7/5. Some of the user reviews of the app are as follows:

VaibhavTiwari says:

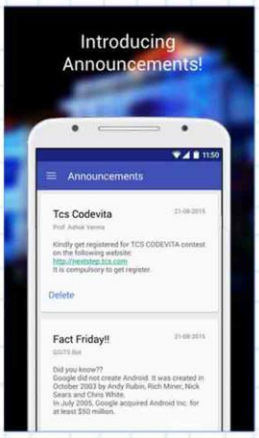
"This is insanely great!!! These guys surely deserve kudos from all of us, constantly striving to serve a whole new generation of aspiring students. This app represents an example of intelligent designing and innovative programming methodology. Its attractive yet simple UI and its immense utility range brings it on par with some of the best apps in the market. Thank you guys!!""

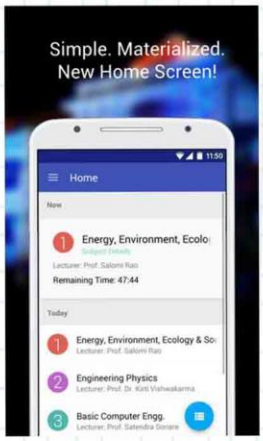
HarshikaPandey says:

"This app makes things a lot easier. Thanks:D"

TejasParanjpe says:

"The new UI and announcement alert system is out of this world. A professional grade app!!"





BATUAPAY

WINDOWS APP THAT MADE TO MICROSOFT IMAGINE CUP NATIONAL FINALS

Project description

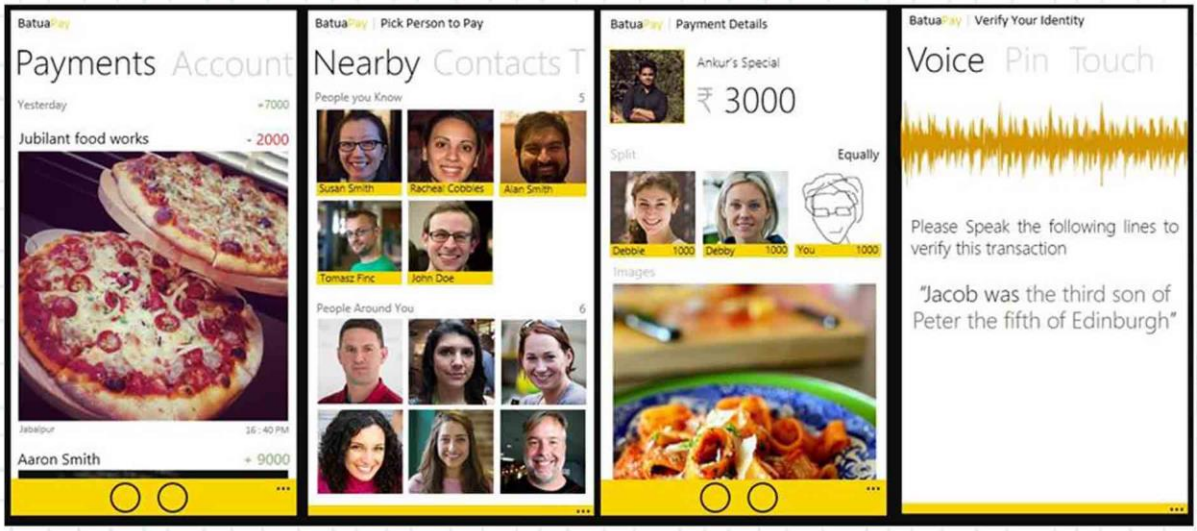
Batua pay is basically a simplified payment application based on Windows phone which makes transactions possible in just 30sec from one bank account to another. This can be done by many other online wallets available in the market, however the difference in batuapay and other wallets is that we need not create any new account to transact money from; the money is transacted from your existing bank account. Also BATUApay makes it possible to transact money just by using our feature phones "the classic handsets" by sending a message, and is authorized by voice of the account holder via a call from the server to authorize the transaction while smart phones transaction can be made by voice commands using Cortana.

Team details

A team of **3 candidates participated in Microsoft imagine cup 2015** under innovation category representing Gyan Ganga Institute of Technology and Sciences comprising

- Abhishek Hingnikar cs 8th sem
- Purvi Jain IT 6th sem
- Deepali Kushwaha cs 6th sem

After being the only team to qualify from the state we achieved **3rd rank all over india in innovation category.**



ALIEN DASH

-SHREYANSH DEB,
CSE V SEM

Alien are attacking your spaceship. Be the 'saviour'.
Presenting Alien Dash, a dodgestyle 2D game designed by Shreyansh Deb, CSE V Sem.

The Game is about different Aliens who move and grove to kill you by colliding with your Space Ship.
The player acts as a spaceship saviour and Dodge the ship from Aliens in an endless runner.
Player earns coins for the Distance they can survive.

Shreyansh,along with two of his friends worked round the clock to make this fun yet challenging game.
he put in his designing skills to make Alien Dash successfully available to all of us via Google Play.
Play, Score BIG and brag about your score to family and frineds.

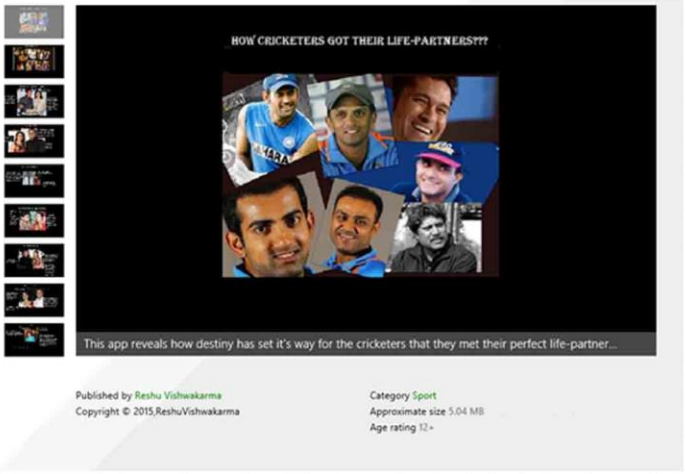
DIVA'S WORLD (WEBSITE)

-RESHU VISHWAKARMA,
CSE VII SEM

It consists of Pageant's life-story, achievements, photos, videos, final round questions asked to them in Miss Universe contest.

Technology used- Visual Studio2013
Language used- HTML and CSS

HOW CRICKETERS GOT THEIR LIFE PARTNERS? (WINDOWS APP)



Description- It is a static windows app which reveals the real life story of many Indian cricketers.

Technology used- Visual Studio2013
Language used- C#

FACULTY'S ARTICLES

Need of Text Pruning in IR Systems

Author Name
-Dr. Santosh Vishwakarma
Department of CSE

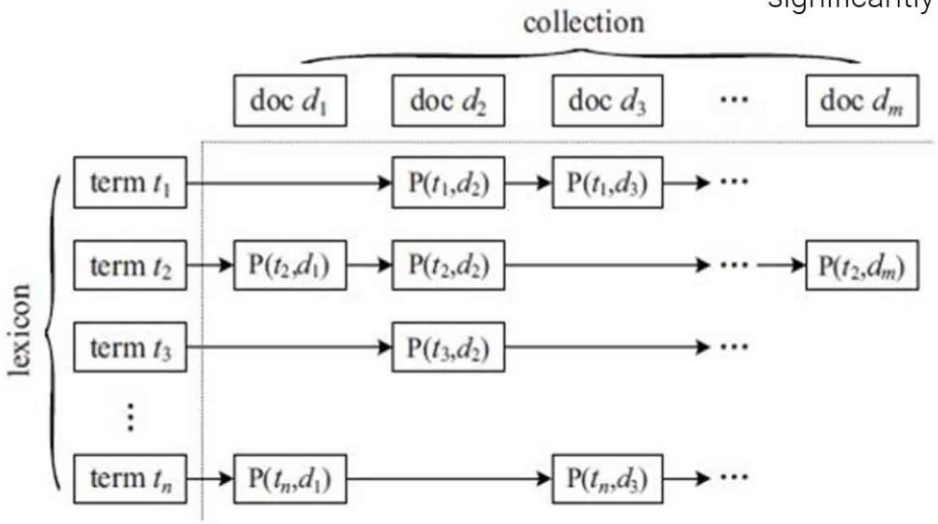
Information Retrieval [IR] is a branch of computer science which deals with the retrieval of unstructured documents that should satisfy user's information need. To improve the efficiency of IR Systems, much of the attention has been given to retrieval efficiency, etc. Efficient Performance of IR system can be achieve by employing suitable data structure, policy driven memory caches and adequate algorithms to access these data structures . The most efficient data structure for implementation of IR system is inverted index.

Inverted Index is described as a 3-tuple as follows:

(1)The posting score is calculated through various approaches which also includes the particular IR scoring system. Conceptually, the inverted index can also be defined as a relation which consists of a list of terms as the cardinality and the document collection as the degree of the relation. Generally, it consists of only non-zero entries. A pictorial representation of an inverted index is shown in Fig. 1

A key issue in the development of inverted index is to develop algorithms that reduce input output bandwidths and storage overhead. The size of the index file determines the storage overhead imposed. Futhermore, large index files directly effects the processing times. In order to acheive efficiency, pruning methods are applied in the inverted index. Some posting lists entries maybe removed or pruned without signficantly degrading precision. The user should not be able to recognize the difference in the results from an unpruned index and a pruned index.

One of the most important aspects of pruning unimportant terms is to calculate the scores of the term based on the Chi-Sqaure statistical method. The document score is computed based on the associated terms inside it. A document is pruned from the index if it falls below the specific thershold values.This is a lossy approach as it perpanentrly discards some documents, thus subsequently postings entries. The method shows significant improvements of pruning at leels of nearly 60% of the full inverted index did not significantly affect the precision.



DEVELOPMENT OF FACIAL INFORMATION BASED GENDER CLASSIFICATION TECHNIQUE.

Author
Dr. Preeti Rai
Department Of CSE

OVERVIEW OF THE RESEARCH

Face is a characteristic of human beings, which uniquely reveals their identity, age, and emotions. Although humans are adept in determining the gender of a human by a quick inspection of his/her face, but to accomplish this task computationally with the same efficiency is yet to achieve. However, due to inherent facial intricacies, classification of gender by analyzing a person's face is a challenging task. Nevertheless, gender classification from a person's face can play an important role in a variety of computer vision based applications. Surveillance and security system design, biometric authentication systems such as smart systems controlling the access of people to prohibited areas, and search engines with an image filter to optimize the search are some potential applications. Apart from computer vision based applications, the gender information gathered from the face can also be utilized for areas like demographic study. Gender classification, if used in conjunction with face recognition, makes the face recognition task twice as fast by eliminating the search for a particular gender.

Fig. 1 shows a gender classification system which consists of preprocessing, feature extraction, and classifier module. The preprocessing module extracts the most relevant information of face from the face image i.e. the Region of Interest (ROI). The feature extraction module measures ROI in terms of features or properties that are finally used by the classifier to classify an image as male/female.

While developing any gender classification system, researchers focus primarily on two modules: the feature extraction and classification. Also, most of the works use database containing mainly the full frontal face images. Moreover, literature rarely discusses work on

- The size of the feature vector.
- Gender classification from the face images with Variations in illumination, expression, and noise. Partially occluded images (due to various reasons).

Motivated from these observations, following are the objectives of this work:

Design and develop a gender classification system robust to varying extents of occlusion.

- Propose an efficient, yet small sized feature vector so as to enhance the classification accuracy and speed of a system. It is possible only if the ROI is extracted from the most potential segment of an image.

PREPROCESSING

The following method is used to extract an efficient ROI. To find the relevant face area from the image, three points, left and right corners of the eyes, and center of the chin are selected on the face, see Fig. 2. The average value of these three points (say, P) is calculated and its distance (say, r) from any corner point is computed. From point P, a square with side 2r is drawn. Portion of the image contained within this square is the desired face image.

Fig. 1: Gender classification system

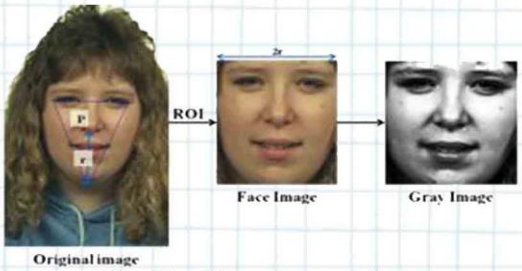


Fig. 2: Preprocessing

PROPOSED COMBINATION TO GET A FEATURE VECTOR ROBUST TO VARIOUS EXTENT OF OCCLUSION - GABOR FEATURE BASED (2D)2PCA

Recognizing gender of a person from occluded face image is a recent challenge in gender classification research. This article investigates the issue and proposes a gender classification system that works for non-occluded face images to face images occluded up to 60%. To address the occlusion problem, local features from the face are extracted in addition to the global information of the face. It is observed that local features in face images are most robust to distortions caused by expression and illumination changes. To target these local properties, the Region of Interest (ROI) of a face image is partitioned into Si = M×N number of sub-images. Bi-level wavelet decomposition applied on a sub-image gives Approximation Face Sub-Image (AFSI). AFSIs contain potential information of ROI image. A set of Gabor filters with six orientations is then applied to get real Gabor space which contains vital information of the face and is less sensitive to the variation of illumination, expression and poses.

The real Gabor space is a quite high dimensional space. It is further projected to horizontal and vertical directions of 2DPCA (i.e.(2D)2PCA) subspace for dimension reduction and selection of the most discriminated feature subset. In the testing phase, features of target face sub-image are calculated as stated above, and are classified using SVM classification scheme. The block diagram of the proposed system is given in Fig. 3

Experimental results for non-occluded images

For the occlusion free faces, performance is evaluated with different number of sub-images 2×2, 3×2, 4×2, and 5×2. The results are shown in Fig. 4. It can be concluded that local features offer improved classification rate as compared to global features (full face image i.e 1×1). It is also observed that features extracted from 4×2 sub-images outperform all others. The experimental results also illustrate that the proposed approach outperforms existing approaches in terms of classification rate by achieving more than 95% accuracy for most of the databases (FERET, FEI, Indian Face, and AR) except LFW as shown in Fig. 4.

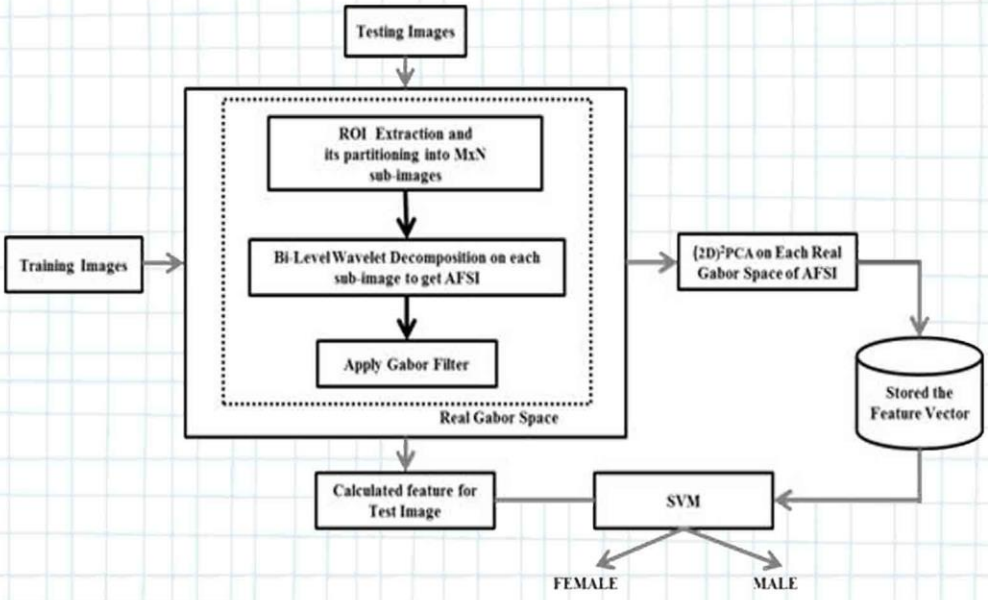


Fig. 3: Process flow of Gabor based (2D)2PCA

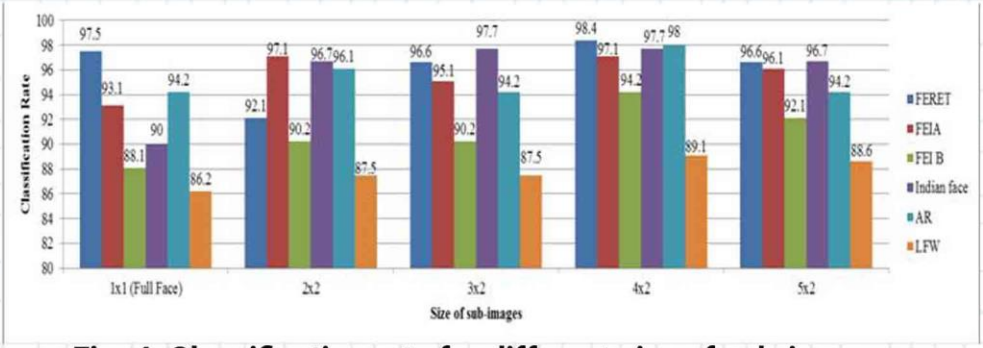


Fig. 4: Classification rate for different size of sub-image

Experimental results for occluded face image database

Occlusion on face images usually occurs when a person wear sunglasses, suffers injury on faces, covers his/her face with scarf, hand or put mole on his/her face. The proposed system is tested on naturally as well as artificially occluded face images as shown in the Fig. 5 (a) and (b).The results on naturally occluded AR database are shown in Table 2.

In case of artificially occluded images, the proposed work achieves, 92.0% accuracy (averaged over all databases) under small (10%) occlusion and an average classification accuracy of 86.8% under large (60%) occlusion using two-fold cross validation as shown in Fig. 6. Verification of the results under person independence condition with very high occlusion of up to 60% is a significant contribution of the work.

SUMMARY AND CONCLUSIONS

The important findings of the work are summarized as:

a. Developed a gender classification system for both occlusion free and occluded faces.

b. In occlusion free case, it enhances the classification accuracy and speed.

c. System renders accuracies above 90% under lower occlusion conditions.

d. System also survives in higher occlusion conditions by giving minimum of 86% accuracy.

e. We analyze the impact of various face parts in the context of gender classification.

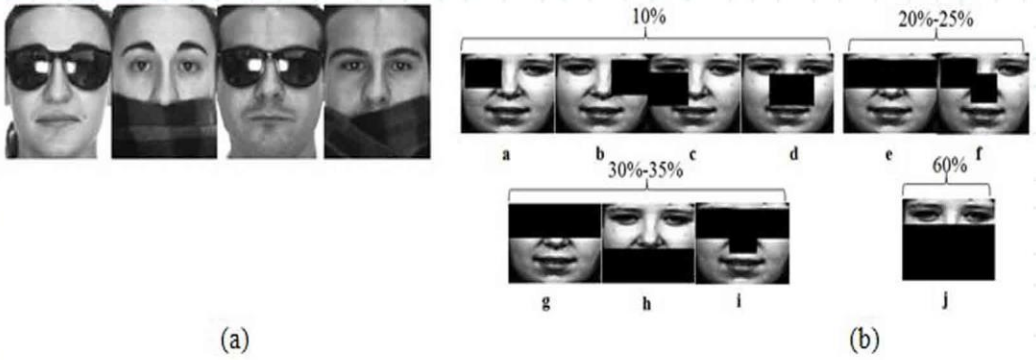


Fig. 5: Samples of Occluded Face Images (a) Naturally occluded; and (b) Artificially occluded

Sub-images	Wearing Sun glass (in %)	Wearing Scarf(in %)
1x1	91.4	69.15
2x2	94.2	86.2
3x2	92.2	88.4
4x2	94.2	90.1
5x2	92.2	86.7

Table 2: Classification Rate on Naturally Occluded face (AR)

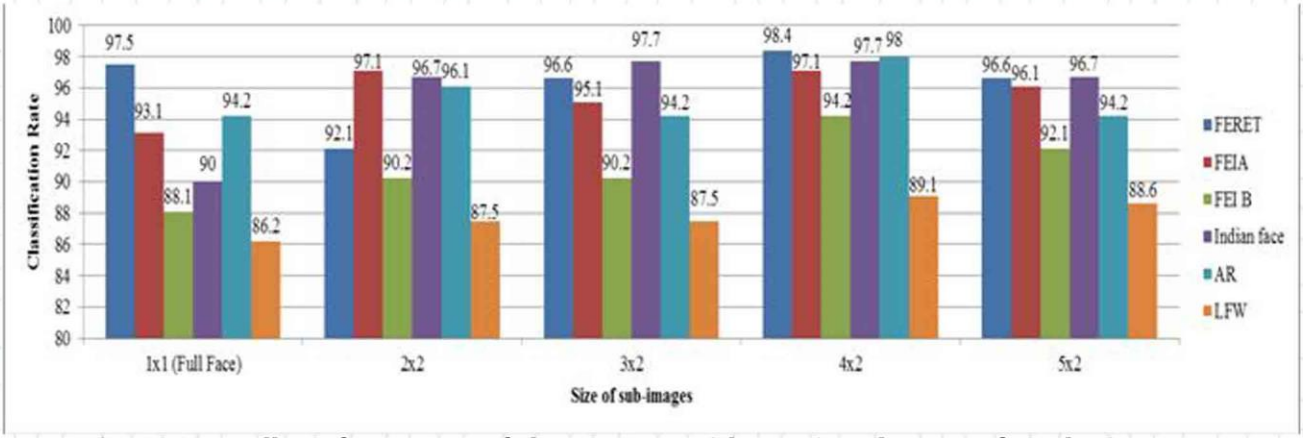


Fig. 6: Overall performance of the system with varying degree of occlusion

THE EVOLUTION OF MACHINE LEARNING

Author Name-
Ms Jigyasa Nigam,
Department of CSE

We generally hear analysts talk about complex data terms, and they all are sure for its faster growth. Complex data may be in a different form like text, media, image, and so on.

But in today's scenario main source of text data are blogs and YouTube videos , they all are in natural language, and it is too difficult to extract the information from there because, in human language one information is given in many different ways. And nowadays each and every thing converts in digital form. But most of the people are unable or not comfortable to interact with digital world because of language, that is why our researchers work hard on natural languages, its called Natural language processing (NLP).

NLP is a branch of artificial intelligence and highly interdisciplinary field of study comprising of concepts and ideas from Mathematics, Computer Science and Linguistics. NLP is playing a main role in machine learning. Machine learning (in the context of text analytics) is a set of statistical techniques for identifying some aspect of text (parts of speech, entities, sentiment, etc).In future if we want to make a system which enable us to understand speech and sentiments and take an appropriate decision based on this, For this we need to train our machine. But to train our machine for this, we need to collect huge amount of text bodies and speech for the
languages. And to access huge amount of data, distributed systems are used. Now one more effective distributed file system is used called Hadoop.

Apache Hadoop is an open source software framework for storage and large scale processing of data-sets on clusters of commodity hardware. Hadoop is an Apache top-level project being built and used by a global community of contributors and users. It is licensed under the Apache License 2.0. The combination of Natural language tool kit (NLTK) and Hadoop is perfect for prepossessing raw text. Hadoop streaming is a utility that comes with the Hadoop distribution and allows allows you to create and run map/reduce jobs with any executable or script as the mapper and/or the reducer. Dumbo is an open source tool that can be used to do the NLP task of automatic word association with a very large corpus by using Hadoop on Amazon EC2.

Many machine learning projects continue in progress like "Anusaaraka" in LTRC (Language Technologies Research Centre) at IIIT Hyderabad

Naturally occurring instances of human language, be it text or speech, are growing at an exponential rate given the popularity of the Web and social media. In addition, people are increasingly becoming more and more reliant on internet services to search, filter, and process and, in some cases, even understand the subset of such instances they encounter in their daily lives. Whether you think about it or not, those services allowing you to do so much with language everyday are generally trying to solve well-understood NLP problems under active research.

STUDENT'S ACHIEVEMENTS

PRODIGIES OF GGITS

While achieving excellence in other co-curricular and extra-curricular activities students of GGITS have performed exceptionally well in their regular academics also.

Our latest results of 6th semester represents how step by step we're getting close to our mission:

AnkitaSadaniScored a SGPA of 9.13.

Arunima BanerjeeScored a SGPA of 9.13.

Students of 1st year also performed effectively:

Ojal Jainand RomitBhalla Scored a SGPA of 8.47.

DilpreetKaurRehsi and VarshaTiwari Scored a SGPA of 8.40.

We heartily congratulate students of GGITS for their results and wish them luck for the journey they're about to embark.

CS First Sem TOP 10 (Batch 2014-18)

S.No	Roll No.	Names	SGPA	CGPA	Rank
1	0206CS141095	OJAL JAIN	8.47	8.47	1
2	0206CS141129	ROMIT BHALLA	8.47	8.47	
3	0206CS141055	DILPREET KAUR REHSI	8.40	8.40	2
4	0206CS141175	VARSHA TIWARI	8.40	8.40	
5	0206CS141024	ANJALI FERWANI	8.33	8.33	3
6	0206CS141162	SIMRAN GOYAL	8.33	8.33	
7	0206CS141044	AYUSHI SAHU	8.20	8.20	4
8	0206CS141063	GUNEET KAUR MAKAN	8.20	8.2	
9	0206CS141084	MONIKA TIWARI	8.20	8.20	
10	0206CS141098	POOJA RAJAK	8.20	8.20	
11	0206CS141021	ANCHITA MISHRA	8.13	8.13	5
12	0206CS141069	ISHU JAIN	8.13	8.13	
13	0206CS141042	AYUSH JAIN	8.07	8.07	6
14	0206CS141045	AYUSHI SAHU	8.07	8.07	
15	0206CS141047	CHETNA CHIMNANI	8.07	8.07	
16	0206CS141096	PALAK SHRIVATAVA	8.07	8.07	
17	0206CS141010	AKRATI SAHU	8.00	8.00	7
18	0206CS141080	MEESHA SINGHAI	8.00	8.00	
19	0206CS141082	MITALI CHAKRABORTY	8.00	8.00	
20	0206CS141151	SHIVANI TIWARI	8.00	8.00	
21	0206CS141154	SHRISHTI BITHALE	8.00	8.00	
22	0206CS141001	AALAP SWAMI	7.93	7.93	8
23	0206CS141072	LAKSHYA PRATAP SINGH RATHORE	7.93	7.93	
24	0206CS141087	NANDINI DANI	7.93	7.93	
25	0206CS141131	ROSHNI ASATI	7.93	7.93	
26	0206CS141019	ANAM KHAN	7.87	7.87	9
27	0206CS141091	NIKITA NAWANI	7.87	7.87	
28	0206CS141153	SHREYA SURJAN	7.87	7.87	
29	0206CS141007	ADITI VERMA	7.80	7.80	10
30	0206CS141068	ISHDEEP SINGH SABHARWAL	7.80	7.80	

TATA CONSULTANCY SERVICES

CODEVITA

Sports are a great way of bringing out character of a person. A spectrum of emotions ranging from hope to despair, monotony to excitement, boring to interesting, mediocre to extraordinary performances are seen in every sport known to mankind. The purpose of sports, apart from physical and mental fitness, is to evoke these emotions. TCS feels strongly about promoting the culture of Programming-As-A-Sport. TCS CodeVita, a programming contest, is TCS's way of attracting young impressionable college students across the world to adopt this culture and experience joy of programming

Two Teams were selected from CSE GGITS out of 12 Teams from entire Western Region.

Team 1 - Rashika Sharma and Rewati Yadav-
Ranked 91 in Round 1 of TCS Codevita 2015 in India (6 Teams - 12 Students were selected from Mumbai Region).

Rashika Sharma

Rewati Yadav

Team 2- Priyanshu Gupta and Pallavi Muley-
Ranked 899 in Round 1 of TCS Codevita 2015 in India. (6 Teams - 12 Students were selected from Mumbai Region). Amongst Top 300 teams in TCS Testimony 2015 in India.

Priyanshu Gupta

Pallavi Muley

TCS Code Vita Winners

Varun Priyadarshan & Shivam Pandey
Round 2- 166

Afas Ayan & Ankit Jain
Round 2 – 476

QR HUB
(AT IIT-KANPUR)

Techkriti is an annual inter-collegiate technology and entrepreneurship festival organized by the students of Indian Institute of Technology Kanpur. It was launched with the aim of developing interest and encouraging innovation in technology among students.

The name of the event was Social Conquest.

Students of CSE department 6th Semester presented their project of QR Hub in IIT Kanpur during their annual Tech Fest, Tech Kriti held in March, 2015. They achieved **3rd Position** and were the only non IIT'ians among the Top 5 candidates.

1.ShikharShrivastava,
2.Vatsalya Dixit
3.Shubham Khandalkar
4.Varun Anandani

SRIJAN 2015

It is a grand event of innovative science models and technical papers, Srijan 2015.The event was held at Madhya Pradesh Council of Science and Technology (MPCOST) campus, Nehru Nagar. The various colleges and school students participated in the fest and showcased their creative techno skills. The event was organised by Sister Nivedita Takniki Shiksha Samiti (SNTSS) Bhopal and People's Foundation Bhopal. The fest was inaugurated by Organising Secretery of Vigyan Bharati Jayant Sahasrabuddhe on Saturday. Further, the closure of the event was done by Chief Minister Shivraj Singh Chouhan.

"Srijan is a festival for engineering, pharmacy and MBA students. Srijan will provide a platform for students to showcase the innovative models prepared by them. Students will also be able to present technical papers in their respective branches and get critical appraisal and appreciation. Surely, all this is serious work, but not so serious that creativity gets lost. After all, it is a festival where one celebrates. So, there is fun and frolic in an atmosphere that is free and liberal."

Srijan2015 was held in 5 Zones Jabalpur, Indore Bhopal, Satna and Gwalior. GGITS hosted CS/IT/MCA Workshop.

8 teams were shortlisted to go for next round at Manit Bhopal

THE WINNING MOMENT!!

PLACEMENTS

TCS

Aakash Somaiya
Akriti Sthapak
Aman Shrivastava
Amit Kumar Singh
Ankita Nema
Ankita Nema
Devansh Diwan
Gargi Sharma
Geetika Moolchandani
Harshita Agrawal
Kunal Kapoor
Labhi Gautam
Monika Awasthi
Pooja Agrawal
Prabal Shrivastava
Pramit Arora
Pranjal Jain
Priyanshi Kushwaha
Priyanshi Sharma
Rohit Dwivedi
Shaikh Akram
Shiwali Dubey
Shobhit Asati
Shraddha Nema
Sonam Soni
Vanshaj Madan
Vishal Agrawal
Dhiren Paryani
Gagandeep Jaswal
Yash Prakash Upadhyay

Persistant Systems

Gangandeep Jaiswal
Tanveer Ruprah
Vipul Kumar Tiwari
Yash Prakash Upadhyay

Zensar

Aastha Khare
Dhiren Paryani
Gagandeep Jaiswal
Kamal Kumar Vishwakarma
Pranjali Thakur
Shrilekha V
Surabhi Khatri

Tech Mahindra

Diksha Rawat
Naureen Ali
Raj Patel
Renuka Singh Parihar
Roopal Vishwakarma

Hexaware Tech

Charul Vaghela
Deepshikha Kanojia
Renuka Singh
Yasha Jain

Eclinical Works

Aditya Banerjee
Ankur Vishwkarma

Collabera

Neelima Sadhukhan

PROFESSIONAL SOCIETY ACTIVITIES

COMPUTER SOCIETY OF INDIA

- **Inauguration of CSI (Student Accreditated Wing) on 14th May 2015.**
  Dr. P.B Sharma, Vice Chancellor of Amity University Manesar Gurgaon & Dr. B.K Sthapak, Chancellor OP Jindal University, Raigarh were present and enlightened us with their words.

- **Cultural Fest organised under CSI by the students and faculties of CSE branch.**

- **An Expert Talk by Dr. Vipin Tyagi**
  Dr. Vipin Tyagi spoke on "Image Compression Techniques" for Students & Faculties.

Events Calendar- CSI, GGITS

Month	Detail	Resource
June 2015	Portal for Retired Personnel	GGITS Research Cell CSI Minor Project Funding
July 2015	One Day workshop in Cloud Computing One Day workshop in Information Retrieval & Search Engine Optimization	EMC2
August 2015	Expert Lecture on Image Processing	Dr. Vipin Tyagi Vice President CSI (RVP-III)
September 2015	Expert lecture on Machine Learning	Iyyakutti Iyappan Senior Research Fellow IIT, Indore
November 2015	Application of IT in Manufacturing Industries, overall efficiency enhancement, New Trends and Directions	CSI Resource Person Dr. Arindam Sen
12-14 December 2015	IEEE International conference on Computational Intelligence and Communication Networks (CICN) at GGITS, Jabalpur	MIR Labs IEEE Xplore CSI
Jan 2016	Industrial Visit	HCL Plant, Rudrapur

FOXOGYAN

Creative and resourceful, Student Ambassadors lead campaigns and projects at their colleges and in their communities to encourage others to contribute to Mozilla (and utilize our products). Together, Firefox Student Ambassadors play a large role in helping to improve the global experience of people on the Web.

On 3rd February 2015, first Mozilla club of Jabalpur was launched by club lead Deepak Jain at Gyan Ganga Institute of Techology and Sciences. The club was named FoxoGyan.

Activities conducted under FoxoGyan include-

1. Session on web maker tools and Net Neutrality.

2. TechHours: A four day workshop on fundamentals of computer to students of Maharani Lakshmi Bai School, Jabalpur on 27th May.

Highlights of FoxoGyan activities.

MICROSOFT EVENTS

MICROSOFT IMAGINE BOOT CAMP

Addressed by Mr. Aditya Mohan Director Telematics ,Technical Deep Dive & Top imagine cup Project Presentations

MICROSOFT AZURE SPARK TRAINING PROGRAM

Driving awareness and learning for students on Microsoft Azure by trainer Mr. Shyamal Pandya

MICROSOFT ONE DAY AZURE CAMP

One day technical and hands on lab session on microsoft azure cloud computing platform.

WINDOWS 10 GAME JAM

Keynote Address by Mr. Abhishek Nandy , Microsoft Delegate,other delegates were Mr.Vikrant Satsangi & Mr.Saurabh Kirtani.

ALUMNI CSE

Alumni Speaks

Anirudh Chawla(CSE Batch 2014)
Currently working as a Systems Engineer for Infosys Limited ,Hyderabad

Everyone says, what you learn in college is not gonna be used in the company you work, they have their own tools and own technologies. But the real fact is the basic education you get from college is really important. The whole outside world developed is based on the fundamental aspects of Computer Science and Electronics Engineering which you study in college during the graduation time.

Our course structure has been such designed that we get the basic knowledge of all the fundamental technologies you might use to develop a complete software product, so never underestimate the college studies saying this won't be used. Knowledge never goes waste and grades are equally important. Our teachers are highly qualified and experienced and you must learn from them as much as you can during your college life.

Currently I am working on Big Data technology, now this has been a buzzword from a really long time as to what it is, let me explain it to you simply.

"Big data is a term simply used for voluminous amount of data that may be structured, semi-structured or non-structured".

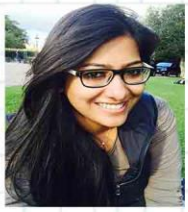
Structured data means that could be stored using traditional RDBMS systems, that has a proper schema or to say they have a proper data model, but there are data like email messages, audio files, presentations that do not have a proper schema which cannot be used using traditional RDBMS systems. But that data is equally important, as they have to used for analytics and predicting user choices. So all these data collectively constitutes Big Data, and to manage Big Data there is a framework called Hadoop and Map-Reduce which is an open source product used for processing these data.

Hadoop is known for storing this data in distributed systems which can s which has its own file system call HDFS, Hadoop Distributed File System.

Map Reduce programs can be written using Java, C++, Python, Ruby etc which processes the data user wants, Map fetches the data and Reduce processes the data for the optimal results and computation.

Now these 2 terms might seem new and you might think it is difficult, but let me tell you they are very easy to learn only if you have your fundamentals cleared. Hadoop commands are written with the help of basic linux commands like mkdir, mv, cp, put, get which you learn in college and Map Reduce programs are written using basic programming languages. Yes there is just not these 2 things Hadoop and Map-Reduce, there are more components like Sqoop, Hive, Pig, Chukwa which are also used in parallel but the fundamental remains the same.

So friends I wish you all the good luck for your college life ahead, study the concepts well and moreover practice those concepts so that you can learn more about it. Theoretical knowledge is important, but practical is a little more important. In case of any issue you come across for which you need help, you can send me an email at anirudh.8692@gmail.com.



Romi Chattaraj (CSE Batch 2014)
Curently working in Zensar

Hello, I am a scholar from Gyan Ganga 2010 batch and currently working for Zensar Technologies having 5 years of work experience. The technology which I am currently working on is Peoplesoft which is an ERP (Enterprise resource planning) system. This is an oracle product which streamlines the financial and HR processes across an entire organisation and delivers the proven, comprehensive financial management capabilities required to grow a changing, complex business.

The 2 major modules which we support and enhance are: HCM (Human capital management) and FSCM (Finance Supply chain management) for one of the leading insurance company in the United Kingdom.

Peoplesoft HRMS: From recruiting and managing talent, to accurately forecasting future workforce needs, PeopleSoft Human Capital Management enables you to proactively manage HR operations while focusing on strategic business initiatives.

Below are the key features of the module:

- Manage HR globally on a single system of record while complying with local laws and regulations
- Forecast, deploy, track and manage labour with workforce management
- Streamline Time Manager Tasks to approve time, resolve exceptions, and make better decisions with real time analysis of enterprise labor data.
- Cut costs and increase productivity with workforce service delivery Streamline hire process, leave management and payroll processes

Peoplesoft Finance: PeopleSoft financial management solutions, organizations can increase productivity and lower transaction-processing costs, gain visibility into business-critical information, strengthen financial discipline and implement governance best practices and meet multiple reporting and regulatory requirements.

Below are the key features of the module:

- PeopleSoft asset lifecycle management applications break down data silos and integrate the planning, acquisition, operation, maintenance, and renewal of an organization's asset base • Peoplesoft payables streamlines accounts payable operations by providing the flexibility and responsiveness required to maintain good supplier relationships. Automated discount calculations that comply with suppliers' individual terms ensure rapid and accurate payments and efficient cash management.

- Peoplesoft Receivables helps you handle customer invoices more efficiently, streamline invoice processing, and resolve credit and collection issues rapidly. With it, you can track, analyse, and manage payments and deductions so that you always have an accurate view of customer balances and credit histories. In addition, by using the application to analyse open invoices and vouchers, you can predict future cash flow with precision, minimizing the risk of unexpected shortfalls and maximizing opportunities to use excess cash.

•• PeopleSoft General Ledger helps the Customers that have multiple entities, lines of business, or global businesses that must consolidate their financial results according to generally accepted accounting principles (GAAP). This entails using entity hierarchies that accurately reflect business activity to meet external and internal reporting requirements. PeopleSoft General Ledger's robust consolidation capability builds hierarchies to manage the consolidation process. This allows companies to consolidate and report the financial results of any number of related legal entities or operating units and easily manage reporting structures.

The Business Value of Peoplesoft (ERP)

Central to the value of ERP systems is the ability of different business functions to work more closely together and therefore be more efficient, as the system:

- Provides a real-time information source on all parts of the business(in our case it's the Human Resource and the financial module), allowing companies to identify problems quickly and find improvements
- Reduces regulatory risks by integrating compliance information with all the relevant business functions
- Automates central business functions such as procure-to-pay, order-to-fulfilment and lead to cash processes
- Improves customer services by providing one source for billing and customer enquiries
- Consolidating all systems within one centralised platform has freed the organisation from having to devote significant time to running reports and data analysis separately for each department.

The case of ERP systems and the easier to implement cloud ERP systems becomes stronger as your business grows. The accuracy of information and removal of redundant process means your business will improve as your costs reduce.

Technical competencies required to support and enhance an ERP application(PeopleSoft):

- Basic knowledge of Object oriented programming , the coding language used is : People Code and the tool used is Application Designer
- SQL, PLSQL, knowledge of Oracle databases
- Linux scripting

-Abha Upadhyay
Batch 2011

She is in Accenture company since 2014 and currently working in banking domain with struts technology using Unix.

I have completed my BE from GGITS college on 2011 and got placed in zensar technology from college placement.
I have worked on jsp servlet spring and oracle in zensar project which was manufacturing project.
I have worked 2.5 yrs in zensar then switched to Accenture company in 2014 and currently working in banking domain with struts technology using Unix.

It was very good experience in GGITS college since all the teachers are very experienced and trained us towards IT carrier to make a unique identity for our future growth. The experience,skills and technology which I learnt from college is helping me a lot in my IT carrier to get into a new stream everytime and improve myself better in any challenge and I m very thankful to my college and teachers for all their support to me.

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Suresh Azariah Sam
(SOM Director – GMSC)

SPARK UP YOUR NEURONS!

1.Who is the founder of Flipkart?

2.Who is the founder of OYO Rooms?

3.who is the Freecharge?

4.What is a printer that creates peripheral models called?

5.What term best describes a software that can expand to support increasing workloads?

6.What are individual requests made to a web server called?

7.Smart applicance and Wi-Fi connected cars fall under what category?

8.What is the company that makes websites available over the internet?

9.A program that allows Window to run on a Mac is what type of software?

10.What device allows multiple USB devices to connect to a signal USB port?

ANS:

1. SACHIN,BINNY BANSAL 2. RITESH AGRAWAL 3.KUNAL SHAW 4.3D PRINTER 5.SCALABLE
6. HITS 7.INTERNET OF THINGS 8.WEB HOST 9.EMULATION 10.USB HUB

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