



MATS SCHOOL OF INFORMATION TECHNOLOGY

APPROVED BY AICTE

To Enhance Technical Skills of Students and
NURTURE Bright Future



Volume-2, Issue - 1, Jan - Jun 2018

PRELUDE TO DATA SCIENCE

It's been said that Data Scientist is the "loveliest job of the 21st century". Why? Because the past few years, companies have been storing their data. And this being done by each and every company, it has suddenly led to data explosion. Data has become the most exuberant thing today. Data Science is an area that manages, manipulates, extracts, and interprets knowledge from tremendous amount of data. Data science (DS) is a multidisciplinary field of study with goal to address the challenges in big data. Data science principles apply to all data – big and small.

In Data Science, we apply various data mining techniques like sentiment analysis etc and get the desired results. It's not only this, we can make better decisions, we can reduce our production costs by coming out with efficient ways, and give our customers what they actually want! With this, there are countless benefits that Data Science can result in, and hence it has become absolutely necessary for our company to have a Data Science Team. Requirements like these led to "Data Science" as a subject today. The term Data Science has emerged recently with the evolution of mathematical statistics and data analysis. The journey has been amazing, we have accomplished so much today in the field of Data Science. In the next few years, we will be able to predict the future as claimed by researchers. Data Science, it is also known as data driven science, which makes use of scientific methods, processes and systems to extract knowledge or insights from data in various forms, i.e either structured or unstructured. A Data Scientist is the master of all trades!

Ms. Manjushree Nayak

Assistant Professor
MSIT, MATS University, Raipur

STREET BEGGARS

Street beggars are a common sight in big cities. Clad in rags, shivering in cold they could be seen everywhere begging in the name of God. One obvious reason for this evil is illiteracy, poverty and unemployment. There are quite a few who take to begging because of it. But another reason is that begging has become quite a paying profession. Many evil practices have come into existence because of it. Kids are kidnaped and sold to be trained and used for begging. At times they are brutally crippled, made lame, blind etc. These get more alms as their miserable plight arouses people's sympathy. They suffer and their oppressors enjoy. Broadly speaking beggars are of two types-able bodies and disabled. The able-bodied can work and earn their livelihood but at the earliest stages they did not get work and now they do not want to work. They fine begging easier and more profitable. The disabled, some due to natural causes and others due to their mentors have no option. Beggars are a great nuisance. They are blot on humanity. They even indulge in many criminal activities. These must be apprehended and taught some craft and made to work. The kidnapers, the sellers and the owners who make the kids beg, should be given exemplary punishments. It is our moral duty to help to the weak, the hungry and the suffering people. But by dispensing alms as charity, we do not help them. We should help to educate and rehabilitate them.

Sourabh Sarkar

DCA
MSIT, MATS University, Raipur

सच का पता

ऐ दोस्त तू ये जान ले
कि तेरा हमसफ़र ये कौन है
ऐ दोस्त तू ये जान ले
कि तेरा हमसफ़र ये कौन है
पढ़े हैं जिसने कसौदे तेरे----२
उसे चाह है कुछ और की
ऐ दोस्त तू ये जान ले
कि तेरा हमसफ़र ये कौन है
ये शहर है सियासतों का ----२
सुना भी कर तू संभल के
ऐ दोस्त तू ये जान ले
कि तेरा हमसफ़र ये कौन है
तेरे ज़हन की गहराइयों में ----२
छुपा है सच पहचान ले
ऐ दोस्त तू ये जान ले
कि तेरा हमसफ़र ये कौन है।

Dr. Umesh K. Pandey

Associate Professor
MSIT, MATS University, Raipur

पढाई और नौकरी में सम्बन्ध

हम २१वि सदी में प्रवेश कर चुके हैं पर अभी भी सोच में बदलाव नहीं है, यहाँ हम पढाई और नौकरी में सम्बन्ध की बात कर रहे हैं जहाँ समाज के लोगों की धारणा यही है कि, अगर अगर इस विषय की पढाई करते हैं तो आप यह बनेंगे। उदाहरण के लिए अगर आपको सरकारी नौकरी चाहिए तो आप शुरू से ही उसके सिलेबस को फॉलो कीजिये और सब कुछ छोड़ कर उसकी तैयारी में लग जाइये देर सबेर आप कोई न कोई सरकारी नौकर बन ही जायेंगे। अगर बात करें निजी क्षेत्र में काम की तो फिर तो आप खुद की परिभाषा ही भूल जाइये, तो कुल मिलाकर बात यह आती है कि पेट के लिए काम तो करना ही है, चाहे जो भी हो। लोग सरकारी नौकरी को मज़े का दर्जा देते हैं और निजी को सजे का दर्जा, यह आपको चुनना होता है की आपको मज़ा चाहिए या सजा। यह पूरा कांसेप्ट आज हमारे समाज में व्याप्त है। बचपन में हमें सिखाया जाता है की ज़िन्दगी में पढाई का बहुत महत्व है, लेकिन बड़े होते होते हमारा दिमाग पढाई को नौकरी की दृष्टि से या महज़ डिग्री हासिल करनी की दृष्टि से आकने लगता है जो की पूर्णतः गलत है। पढाई का सीधा सा मतलब यह है की अगर आप किसी भी क्षेत्र में पढाई कर रहे हैं तो उसमे आपको निपुण(एक्सपर्ट) होना है ना कि महज़ डिग्री हासिल करनी है। पढाई का मतलब नौकरी पाना मत समझिये (जो की हमारे दिमाग में बैठाया जाता है) बल्कि पढाई आपकी सोचने समझने की क्षमता में बदलाव लाता है या यै कहे की आपको औरों से ऊपर उठता है। पढाई को ज़िंदगी के एक महत्वपूर्ण हथियार की तरह सोचिये जिसको आपको सही से इस्तेमाल (ऑपरेट) करना सीखना होगा जिसका मौका हर किसी व्यक्ति को नशीब नहीं होता, तो उसकी अहमियत समझिये। अगर आप यह विचार धारा अपनी जीवनशैली में लाते हैं तो आप निश्चित होकर जो भी चीजे आप पढाई से सिख रहे हैं उसमे एक्सपर्ट बनिए फिर यकीन मानिये आपको किसी स्पेशल ट्रेनिंग या किसी मोटिवेटर की जरूरत नहीं पड़ेगी क्योंकि आप खुद दुसरो से ऊपर उठकर उनके लिए यह चीजे (स्पेशल ट्रेनिंग या मोटिवेशन) प्रस्तुत करने में लग जायेंगे। किसी सरकारी या निजी क्षेत्र में कार्य तलाशने की जरूरत नहीं पड़ेगी, आपको काम मिलेंगे आपको चुनना होगा की आप क्या करना चाहते हैं और क्या नहीं।

Durgesh K. Sahu

M.Sc. CS
MSIT, MATS University, Raipur



OXYZONE
24/4/2018



IT - UDDHYAMITA-II
28/04/2018



BELLA FUTURO (FAREWELL)
04/05/2018

"I choose a lazy person to do a hard job. Because a lazy person will find an easy way to do it"
Bill Gates



MATS SCHOOL OF INFORMATION TECHNOLOGY

APPROVED BY AICTE

To Enhance Technical Skills of Students and
NURTURE Bright Future



Volume-2, Issue - 1, Jan - Jun 2018

NEWSLETTER

"All the powers in the universe are already ours. It is we who have put our hands before our eyes and cry that it is dark."

Swami Vivekanand

HIGHLIGHTS OF SESSION

NPTEL WORKSHOP

STUDY TOUR

MATSOTSAV

ONE DAY PICNIC (SIRPUR)

CLEANING DRIVE (MANA CAMP)

WOMEN'S DAY CELEBRATION

E-WASTE COLLECTION DAY

TECH-TRENDS (NATIONAL SEMINAR)

VISION DRAWING COMPETITION

OXYZONE

IT - UDDHYAMITA-II

BELLA FUTURO (FAREWELL)

ABOUT MSIT

MATS School of Information Technology is a strong pillar of MATS University right from its inception in the year 2008. MSIT has strive hard in providing the students opportunities for academic growth as well as overall excellence and gaining knowledge.

The department is approved by AICTE and follows the technical rule and regulation issued by competent authority time to time. MSIT is associated with giant companies like Microsoft and Oracle for technical trainings and nurturing students. Along with this, MSIT organizes personal mentoring sessions, career counseling session, personality development session, team development activities, Seminars, conferences, outdoor activities etc. Every year alumni of department is expanding its network in corporate sector. MSIT has eminent resource person from industry and academics and this list is growing year by year.

The personalities are from Jawahar Lal Nehru University New Delhi, ISRO Hyderabad, West Bengal University, MANIT, IIIT, TCS, IBM, Wittyfeed, Government funding agencies like CGCOST, CHIPS etc are enriching the profile of department as a resource person. Academic programs are adequately combined with theoretical inputs, educational tours, industrial visits and project works to understand the practical applications. Faculties regularly collaborate with students on research, internship and community outreach projects.

The department has adopted UGC recommended Choice Based Credit System (CBCS) from academic year 2015-2016. MSIT offers ever aspiring and talented youth to become part of vibrant culture and a professional partner for the corporate world. From physiological need to intellectual gratification, MATS is ready for life.

Message From the Head of the Department

Welcome and best wishes to all who receive this Newsletter. It gives me great opportunity to present the second issue of "Newsletter". This Newsletter is one of the way in which we can disseminate information of MSIT. This department has provided a platform to perform various academic co-curricular, extra-curricular activities. This newsletter contains Articles, Departmental events, Departmental activities, Faculty achievement etc. We feel proud and privileged to convey this to you, that our students initiated a very nice concept to celebrate the events with the people who seek care and help to connect with the social mainstream. We convey our greetings to all our stakeholders, for their positive criticism enforced to focus and add more value additions in courses for our students to make them different and more skilled as compared to other institution running the same faculty. We also convey our heartiest thanks to our management who motivated, supported in all our alleviations and trusted us for positive outcomes. The success of this Newsletter depends on your response. We would appreciate your feedback.

Team MSIT



NPTEL WORKSHOP
16/01/2018



STUDY TOUR
01-10/01/2018



MATSOTSAV
12/02/2018

About Newsletter: Newsletter by the department of MSIT is an interface that has been initiated by the department of MSIT MATS University. We welcome Articles/Poems/Paintings/Short Stories/Facts from the students of MSIT. The contents of the newsletter are provided for information purpose only. No Claims is made and no liability is taken regarding the accuracy or the authenticity of the contents and pictures of the newsletter.

"Failure will never overtake me if my determination to succeed is strong enough"

APJ Abdul Kalam

www.matsuniversity.ac.in/ms-it.php | https://www.facebook.com/MSIT2009 | email - msit@matsuniversity.ac.in



MATS SCHOOL OF INFORMATION TECHNOLOGY

APPROVED BY AICTE

To Enhance Technical Skills of Students and
NURTURE Bright Future



Volume-2, Issue - 1, Jan - Jun 2018

Promoting sustainable development and environmental protection through governance and policymaking

Nearly all areas of human activity revolves around weather, climate and water sensitivity. Particular importance is the impact of weather and climate fluctuations on food production. Other areas, including fisheries and forestry, energy and water resources management, land, marine and aviation transport, banking and insurance, construction and urban design, all benefit directly from services provided by meteorologists. The provision and application of accurate and timely weather information, forecasts and warnings contribute to human well-being and are of considerable benefit to socio-economic development and environmental protection. There is growing concern about the impacts on human societies of extreme events such as tropical cyclones, floods, droughts and heat waves. Some of these events cause enormous destruction and loss of life with long-lasting effects. Meteorologists, in collaboration with atmospheric chemists and hydrologists, issue early warnings of natural hazards so that immediate action can be taken to reduce the loss of life and property. They provide advice about how to prevent and manage the risks and impacts of these events in the longer term. Climate variability and change, ozone depletion, dwindling freshwater resources, desertification and increased pollution have important impacts on the global environment. Meteorologists put much effort into monitoring, assessing and predicting these changes and helping policy-makers develop strategies for dealing with them. Hydrologists also play a vital role by studying the water cycle and the continuous movement of water on, above and below the surface of the Earth and its impact on the distribution and supply of water. Exactly what meteorologists do depends upon local requirements and the structure of the national meteorological service. Meteorologists must not only understand weather, climate and water but also be able to present the information to users in a manner that is timely and easy to understand and use. Meteorology is an exciting, challenging and highly rewarding profession.

Dr. Gyanesh Shrivastava
Associate Professor

MATS School of IT, MATS University, Raipur

Person Identification using Unique Key -Aadhar

In last decade many real world applications based on an unimodal biometric systems. Generally it used the human's physiological characteristic like face, fingerprints and thumb for person verification. Biometric provided the great solution of security often unimodal significant limitations due to sensitivity to noise, interclass variation, non-universality, Spoof attacks and other factors. Attempting to improve the performance of individual matchers in such situations may not prove to be highly effective. Multi biometric systems seek to alleviate some of these problems by providing multiple pieces of evidence of the same identity. These systems help achieve an increase in performance that may not be possible using a single-biometric indicator. Aadhar card is an best idea to check the authenticity of a person it is more secure and identical. India launched a digital innovative project Aadhar that was introduced under the scheme 'UIDAI' (Unique Identification Authority of India) by the UPA (United Progressive Alliance) government in year 2009 is one of the significant projects to bring the universal trend. The main purpose of Aadhar is centralization of various e-governance functionalities and make sure the best possibilities of utilization of Information, Aadhar card is a combination of demography and multi modalities which provides the unique ID to every person it helps to identify the person individually. Aadhar card overcomes the limitation of biometric system and enhances the features of multi modal biometric system. The most important benefits of Aadhar card are Aadhar based Direct Benefit Transfer (LPG Subsidy), Jan Dhan Yojana, Passport in 10 days, Digital Locker, Voter Card Linking, Monthly Pension, Provident Fund, Opening new bank account, Digital Life Certificate, Mobile number, Driving license, PAN card and IT return

Dr. Snehlata Barde
Associate Professor

MATS School of IT, MATS University, Raipur

A worldwide temperature alteration is alarming situation

A worldwide temperature alteration (Global warming) is the term used to depict a continuous increment in the normal temperature of the Earth's environment and its seas, a change that is accepted to be forever changing the Earth's atmosphere. There is extraordinary civil argument among numerous individuals, and in some cases in the news, on whether a worldwide temperature alteration is genuine (some call it a fabrication). In any case, atmosphere researchers taking a gander at the information and certainties concur the planet is alarming. While numerous views are available on the impacts of dangerous atmospheric deviation to be more generous and more quickly happening than others do, the logical agreement on climatic changes identified with a dangerous atmospheric deviation is that the normal temperature of the Earth has ascended in the vicinity of 0.4 and 0.8 °C in the course of recent years. The expanded volumes of carbon dioxide and other ozone depleting substances discharged by the copying of petroleum derivatives, arrive clearing, agribusiness, and other human exercises, are accepted to be the essential wellspring of the a worldwide temperature alteration that has happened in the course of recent years. Researchers from the Intergovernmental Panel on Climate doing a worldwide temperature alteration inquire about having normal worldwide temperatures that could increase in the vicinity of 1.4 and 5.8 °C by the year 2100. Changes coming about because of Earth-wide temperature boost may incorporate rising ocean levels because of the dissolving of the polar ice tops, and in addition an expansion in event and seriousness of tempests and other extreme climate occasions.

Nishant Namdev
Assistant Professor
MATS School of IT, MATS University, Raipur



ONE DAY PICNIC (SIRPUR)
24/02/2018



CLEANING DRIVE (MANA CAMP)
11/03/2018



WOMEN'S DAY CELEBRATION
13/03/2018



MATS SCHOOL OF INFORMATION TECHNOLOGY

APPROVED BY AICTE

To Enhance Technical Skills of Students and
NURTURE Bright Future



Volume-2, Issue - 1, Jan - Jun 2018

The Smart City: How Our Collective Lives are Becoming Technologically Interconnected

The smart city is still a work in progress both when it comes to defining exactly what we mean by the term as well as its implementation. At the highest level, a smart city is one in which various 'public goods' the city provides to its citizens become interconnected. This relates generally to the use and dissemination of energy, the transportation system, the infrastructure, and the healthcare systems. Though the details are still being hammered out, some analysts are already predicting that the Smart City is a \$1.5 Trillion market opportunity.

Let's start with an obvious example, our ability to get an Uber or a Lyft with the touch of a button. The ride sharing industry helps decrease the number of cars on the road and as such helps reduce gas emission levels. Ridesharing is the most well-known example of an IoT invention wherein our smartphones connect us to a service, on the go, by using the geolocation function of our mobile devices. If we just scratch beneath the surface of smart city IoT innovations, we discover so much more....

Notably, the issue of sensors that are being installed on street lights and traffic signals (Amsterdam is one city which has implemented this at scale). Rather than keeping the street lights on throughout the night, wasting energy, all street lights are interconnected and turn on as they detect movement on the streets. The mass adoption of this technology alone could save cities billions of dollars in energy bills.

Imagine being able to optimize and monitor the delivery of water to every household in a city and automatically inform the authorities when an issue requires attention. Or reflect on the Smart Meters that ComEd has been installing all over the nation so that there's no need to estimate the electrical bill of each customer every month or send technicians to collect meter reads.

Expect to see more and more innovations in this field because cities and private companies alike are desperate to reduce their operational costs.

Hansa Rajput
Assistant Professor
MSIT, MATS University, Raipur

Education of Girl's in India

Education is everyone's right and it is one of the most crucial areas of empowerment for women. Educated women contribute greatly to society's development and they can share the responsibility of men in every walk of life. Education not only awakens people's mind, but it also makes them self-dependent. Girl education in India is still a less preferred option in rural areas. Time has changed now and girls who are trusted by their parents and the society are doing wonders in every field. Indira Gandhi, Kiran Bedi, Lata Mangeshkar, etc are some of the great examples. Girl education is even helpful in preventing various crimes against women. Thus, it is important that girl education is promoted in rural areas and villages too so that every girl becomes independent and assertive. Girls' education and gender equality is very important for strengthening the society and lowering crime rates; but girl's education today goes beyond just sending girls to school. It is also about ensuring girl's safety while they are in school. Most of the parents in rural areas are now seem to be convinced in sending their girl child to school.

Girls are undoubtedly an indispensable part of our society. No society or culture can progress without the presence of girls. Until few years ago, people in India and several other underdeveloped and developing countries used to think that girls should stay at home, cook food and look after the kids and elderly.

Girls' education and gender equality are the part of broader and holistic efforts made by the World Bank Group. Gender inequality is clearly one of the important roadblocks in girls' education. Many communities in India still believe that boys are the only contender of their culture and tradition; and girls are born to serve within the four walls of a home.

Girls' education is important from every perspective of life and society. Educated women lead a healthier life compared to the uneducated women; they participate in the family matters and in the formal labour markets too; earn well, marry at a considerable age and plan a family in a better manner.

Poonam Singh
Assistant Professor
MSIT, MATS University, Raipur

Global warming

Global warming, also referred to as climate change is the observed century. scale risk in the average temperature of the earth climate system. And its related effects and its multiple lines of scientific evidence show that the climate system is warming. Many of the observed change since the 1950s are unprecedented in the instrumental temperature records. Which extends back to the mid-90th century, and in paleoclimate proxy records converting thousands of years.

In 2013, the intergovernmental panel on climate change. Fifty assessment report conclude that "it is externally, likely that human influence has been the emission of green house gases such as carbon oxide, methane and nitrous oxide. Climate model projections summarised in the report indicated that during the 21st century. The global surface temperature is likely to rise a further 0.3 to 1.7c (0.5 to 3.1 f) in the lowest emissions scenario and 2.6 to 4.8c (4.7 to 8.6f) in the highest emissions scenario. These findings have been recognized by the national science academies of the major industrialized nations and body of national or international standing. Public reactions to global warming and concern about its effects are also increasing. A global warming 2016 few research centre report showed that a median 58% of all respondents asked consider that, "it is a very serious problem" significant regional difference exist with Americans and Chinese. since 1971, 90% of the "global warming" has accreted in the oceans despite the oceans' dominant role in energy storage, the term "global warming" is also used to refer to increased in average temperature of the air and sea at earth surface.

Since the early 20th century, the global air and sea surface temperature has increased about 0.8c (1.4f) without two – three of the increase occurring since 1980. Each of the last three decades has been successively warmer at earth's surface than any preceding decade since 1850.

Sanket Suman
BCA - II
MSIT, MATS University, Raipur



E-WASTE COLLECTION DAY
09/04/2018



TECH-TRENDS (NATIONAL SEMINAR)
20/04/2018



VISION DRAWING COMPETITION
21/04/2018

"A man is but a product of his thoughts. What he thinks he becomes"

Mahatma Gandhi