

**A Brief Report
on
Three-Day
Online National Workshop
on
Enhancing Digital Skills among the Youth
of North Eastern States: Towards a
Digital India
November 24-26, 2020**

Organized By



**Department of Business Management
Tripura University, Agartala**

In Collaboration With



**RAJIV GANDHI NATIONAL INSTITUTE OF YOUTH DEVELOPMENT
Institution of National Importance by the Act of Parliament No.35/12
Ministry of Youth Affairs and Sports,
Government of India, Sriperumbudur – 602 105.**

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Preface and Acknowledgements

North East Region is a geographically isolated place as compared to the other parts of the country. To develop this region; it is very much necessary to motivate and develop the young minds of this region. Higher education Institutes have always been trying hard to motivate and educate the young generation of this region for their better career and sustainable livelihood. In this respect Department of Business Management, Tripura University has taken the initiative to collaborate with Rajiv Gandhi National Institute of Youth Development to organize a 3 Days' National Online Workshop for the development of the youths of this North Easter Region. On behalf of the organizing committee I thank the Director, RGNYID and Vice Chancellor of Tripura University for their kind support to conduct this programme successfully.

Dr. Debarshi Mukherjee
Associate Professor and Head
Department of Business Management
Tripura University (A Central University)

Preamble

Developing the young minds of the North Eastern Region is one of the foremost duty of the Higher Education Institution situated in this region. Promotion of this region requires the grooming of the young minds in terms of their active participation in economic development of this Nation as a whole and the region in particular. With this background in mind this workshop has been designed to inculcate knowledge about various recent trends in technology focussing on the future demand of the market and also the sustainable development goals.

Objectives of the Program

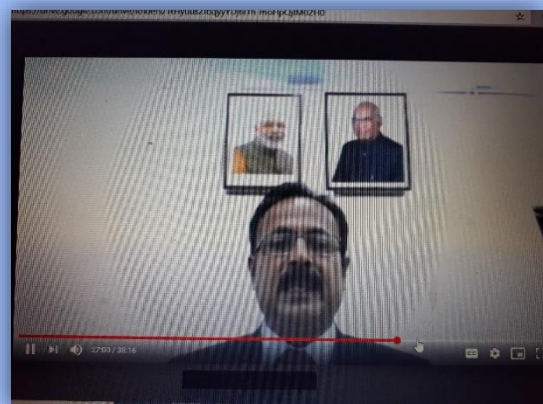
The objectives of the workshop are to inculcate knowledge among youths of the North Eastern Region about various technological skills for generating entrepreneurial activity.

Target Group of the Program

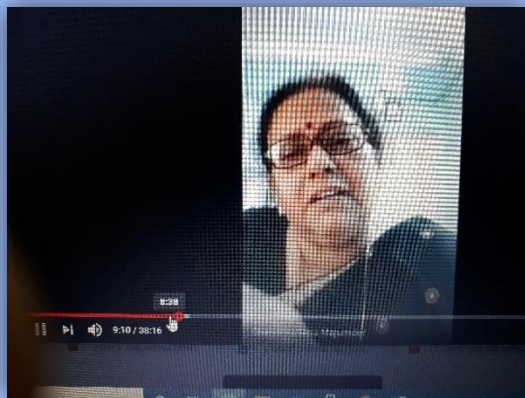
The target group of the workshop are basically the youths of North Eastern Region pursuing their MBA in various Universities of the North Eastern Region.

Inaugural Function of the Program

The 3 Days' Online National Workshop on 'Enhancing Digital Skills among the Youths of North Eastern States: Towards a Digital India' was inaugurated by Prof. Sibnath Deb, Director, Rajiv Gandhi National Institute of Youth Development, Sriperumbudur, Tamil Nadu who also delivered his address as a Chief Guest during the inaugural session of the Program.

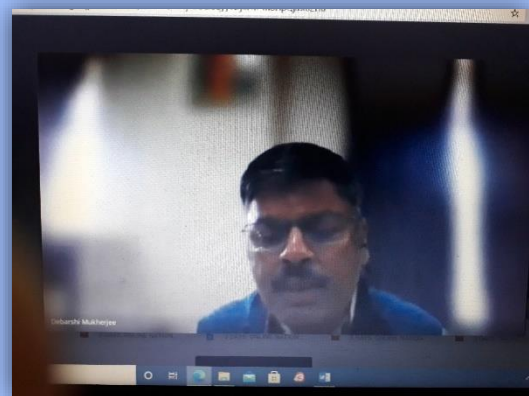


Prof. Ganga Prasad Prasain, Hon'ble Vice Chancellor, Tripura Central University addressed the participants as Chief Patron of the programme and explained about the Youth Policy 2014 in brief and also brought out the significance of organising the workshop with special reference to the needs and requirements of the youths of the North Eastern Region in terms of digital literacy and skill enhancement.



Prof. Chandrika Basu Majumder, Dean, Arts and Commerce, Tripura Central University addressed the participants and as Guest of Honour and motivated the participants to excel in their future by attending such programme repeatedly.

Dr. Debarshi Mukherjee, Head, Department of Business Management, Tripura University and Coordinator of the programme has welcomed the guests and the audience and explained about the theme of the workshop wherein he emphasize the role of digital literacy towards economic prosperity and affirmed the commitment of the department to foster creative, confident and compassionate managers of tomorrow



Topics Covered by the Resource Persons

The first session was on 'National Youth Policy in Digital Economy' conducted by **Dr. Hari Shankar Shyam** of Sharda University. He has highlighted the relevance and role of digital technology in shaping the economic activities mentioned in National Youth Policy.

The second session was conducted by **Shri Pooran Chandra Pandey**, Resident Representative Climate Score card on the topic Sustainable Development Goals and Youth Empowerment through Technology: A focused approach to the North East. He mentioned about the relevance of sustainable development goals in terms of development of the North Eastern region and the scope for contribution towards achieving SDGs by the youths of this region.

Prof. Amlan Chakraborty, Calcutta University conducted the third session on Web 2 Tools; wherein he mentioned about various tools and techniques used for web designing.

The fourth session was conducted by **Dr. Saptarsi Goswami**, Calcutta University on Web Analytics. He has highlighted about various techniques of web analytics how it can be used in business research purpose and data analytics purpose.


Dr. Amol ChandrabhanGoje, President, Society for Data Science, India conducted the fifth session on 'Development of apps' wherein he explained the various functionalities of apps and how can it be used for business purpose or to start an entrepreneurship venture.

The sixth session was conducted by **Dr. Hari Shankar Shyam**, Sharda University on 'Mobile Marketing'. He discussed about the mobile marketing strategies of this digital era. He also explained how the mobile marketing can effectively be used for promotion and selling of various brand of products in the marketplace.

Dr. Amol ChandrabhanGoje, President, Society for Data Science, India conducted the seventh session on 'Ethical Use of Digital Resources'. He has highlighted the significance of ethics in the usage of digital resources and how to maintain ethics properly while using digital resources. He also mentioned few challenges on this aspect and how to mitigate them.

The eight session was conducted by **Prof. Amlan Chakraborty**, Calcutta University on 'Internet of things' wherein he has discussed about the various technicalities associated with the internet of things and how the this technology can be used effectively to ease the functioning of various digital resources.

Prof. Debotosh Bhattacharya, Jadavpur University conducted the ninth session on 'AI Basics'. He has elaborated on the usage and functioning of AI in today's era. He also mentioned about how AI can be used as a tool for efficient marketing of any product or services.



The tenth session was conducted by **CA Ashok Bhansali**, on ‘Block Chain Technology’. He discussed about the usage of block chain technology in financial services sector. He also mentioned the concept of block chain technology and its prospect in near future.

Dr. Tanushyam Chattopadhyay, TCS Research Lab conducted the eleventh session on ‘Machine Learning’ wherein he elaborated the concept of machine learning and its usage in various fields of business. He also mentioned how machine learning is useful for various business research purpose.

Feedback of the Participants

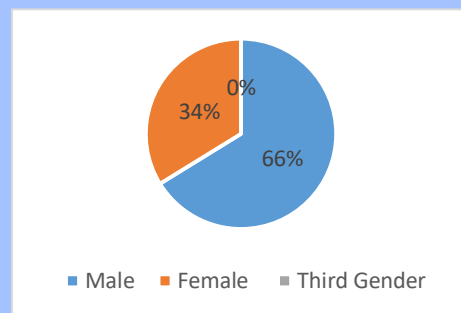
SECTION I: General Details of the Participants

Among the participants a total of 74 MBA students of various universities of the North-Eastern Region provided feedback

Profile of the Respondents

Gender of the Respondents

Among the 74 number of MBA students who provided feedback 66% of them were male and rest 34% were female.



Age of the Feedback Respondents

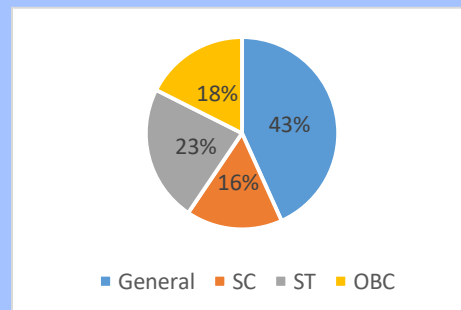
All the participants were in the age group of 20 to 25 years of age.

Education of the Respondents

All the participants were the student of Post-Graduation i.e pursuing MBA.

Category of the Participants

Among the 74 number of MBA students who provided feedback, 43% of them were in General category, 16% were in SC Category, 23% in ST category and rest 18% were in OBC category.



SECTION II: Feedback of the Participants on the 3 Days' Online National Workshop on 'Enhancing Digital Skills among the Youths of North Eastern States: Towards a Digital India'

This section provides the details of feedback collected from the participants who attended the 3-Day Online Workshop on 'Enhancing Digital Skills among the Youths of North Eastern States: Towards a Digital India' organised by the Department of Business Management, Tripura University in collaboration with RGNIYD.

i. Reason for attending the workshop

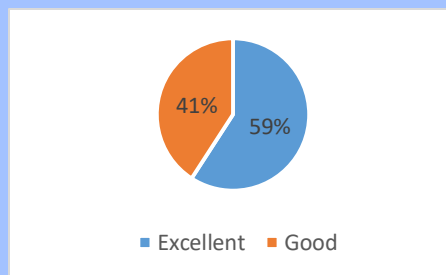
At the outset, the participants of the programme were asked as to what made them decide to attend this workshop? In response to this query, 91% of the students told that they wanted to develop better understanding on digital technology and its usage in business. Remaining 9% of the respondents attended the workshop to clarify specific queries related to digital technology or the course certificate would be of use for their career progression or for other reason like they have been instructed by their respective departments to attend the workshop.

ii. Whether attended all the sessions of the 3 Days' Online National Workshop?

Almost 90% of the respondents attended all the sessions of the workshop as per the attendance sheet.

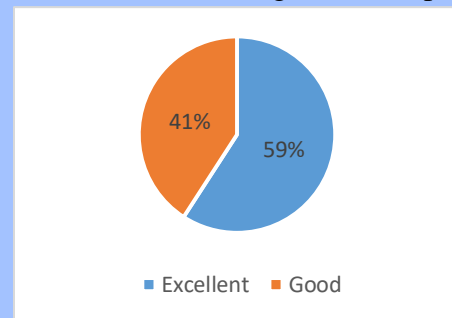
iii. Whether faced problems of internet connectivity during the online program?

43% of the students of the north-eastern region mentioned that they did not face any problem of internet connectivity while attending this workshop, whereas, 57% of the respondents revealed that they faced internet connectivity problems during the program.



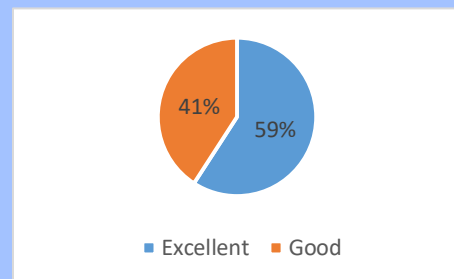
iv. Was course effective?

The participants were asked to indicate whether the course on Enhancing Digital Skills among the Youths of North Eastern States conducted by Department of Business Management, Tripura University in collaboration with RGNIYD was effective. A sizable segment of the respondents (97%) who participated in the program mentioned that the course was very effective. It is evident from the feedback from the students of the north-eastern region that the online workshop on skill development conducted by Department of Business Management, Tripura University in collaboration with RGNIYD proved to be high effective and provides the organizers a pointer that the program has been received well and has been worthwhile. It is also pertinent here to notice that only 3% of the participants have mentioned that the course was ineffective. This shows the success of the program.



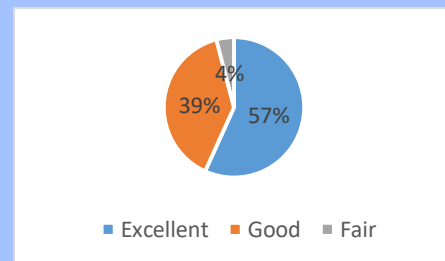
v. Whether the queries were clarified?

While the participants were required to provide a very frank and objective feedback, it was ascertained that 99% of the respondents were able to clarify their doubts and their queries were adequately addressed by the concerned resource persons. Specified duration of time was devoted for interaction with the resource persons to seek conceptual clarity and for having an interface for discussion on various practical aspects of implementation specific to each of the themes included in the program. Besides this data, it was also observed on the virtual platform by the organizers that at the end of each session, the participants were highly enthusiastic to interact with the resource persons.



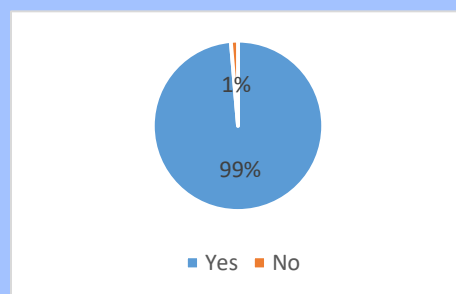
vi. Knowledge and Experience of the Resource Persons

With regard to the feedback provided by the participants on the depth of knowledge and quantum of experience of the resource persons dealing with each of the specialized subject, a majority of the participants 57% pointed out that all the resource persons were excellent and have depth knowledge and experience in their respective subject areas. Another 39% of the respondents said that resource persons good in terms of their knowledge level and experience whereas, 4% of the respondents indicated that all the resource persons were fair in their knowledge level and experience.



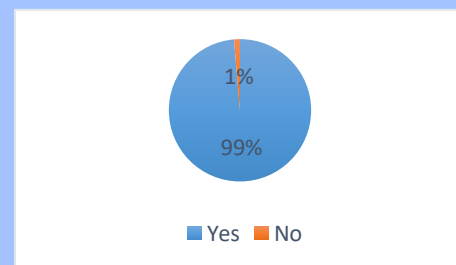
vii. Participant's opinion on online mode of teaching

While providing feedback, the students were required to indicate their response whether the on-line mode of program was a good option for teaching and learning during the lockdown phase such as COVID- 19 pandemic. Among the respondents, 88% of the students felt that online mode was the best method of teaching and learning.



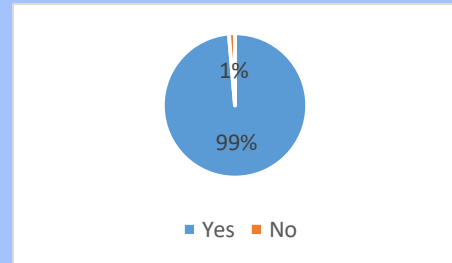
viii. Participant's opinion on the duration of online sessions

When asked about the opinion on the length of each online session, 89% of the students mentioned that duration of sessions were adequate and satisfactory, while 11% of the respondents felt that session duration was not satisfactory.



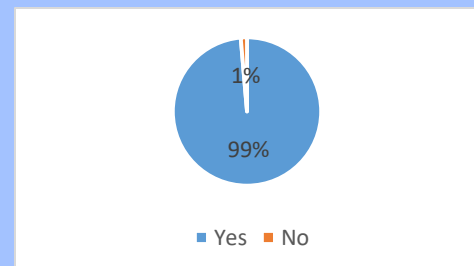
ix. Willingness to attend advanced program on digital skill development

The participants of the 3-day online Workshop on Enhancing Digital Skills among the Youths of North Eastern States: Towards a Digital India' were asked to provide their inclination to attend an advanced programme on digital skill. Outstandingly, it was found that 99% of the respondents enthusiastically indicated that they were willing to attend an advanced program on digital skill development. Whereas, only 1% of the respondents did not express their enthusiasm for attending an advanced program. Probably, those who did not attend all the sessions might have indicated this option or this miniscule percentage of response might have been indicated due to the fact that the online mode/technological compatibility to learning would have created difficulty in assimilating useful information during this programme as some of the respondents have indicated that they always encountered problems with internet connectivity. This would have reduced their enthusiasm and readiness to learning.



x. Participants' recommendation about this digital skill development orientation program to their friends

While providing feedback, the participants felt highly excited for attending this workshop. 99% of the respondents revealed that they would recommend their friends to undergo such online workshop on digital skill enhancement in future. This fact justifies that the program on digital skill enhancement organized by Department of Business Management, Tripura University in collaboration with RGNIYD for the students of North Eastern States has been carefully customized to meet their functional requirements.



Overall impressions and participants' perceptions on the special features of the Program

At the end of the program, the participants were requested to share their personal views and unprejudiced observations about the 3-day online Workshop on Enhancing Digital Skills among the Youths of North Eastern States: Towards a Digital India'. Following were the open comments provided by the participants:

- Overall, the program was very good
- Topics covered were highly interesting
- Contents of the programs were appropriate
- All the session provided good insights
- The course was well planned, well designed, well organized and all the lectures were well delivered
- Online method of learning was effective which had many advantages
- The software platform of the program was highly effective

Conclusion and Way Forward

The three-day program on 'Enhancing Digital Skills among the Youths of North Eastern States: Towards a Digital India' proved to be a digital skill development opportunity to the students of North-Eastern Region to gain better understanding about various aspects of digital skills and clarify their queries as the resource persons were drawn from various fields of digital knowhow. Similar workshop should be organized from time to time for the students of other parts of the country so that they can gather knowledge of digital skill to empower them digitally.

Annexure I: Program Schedule

Date	Time	Inaugural Function	
24.11.20	10.00 AM to 10.45 AM	Welcome Address by Dr. Debarshi Mukherjee, Associate Professor and Head Department of Business Management, Tripura University	5 minutes
		Address by Prof. Chandrika Basu Majumder, Dean Arts and Commerce, Tripiura University	5 minutes
		Address by Prof. Ganga Prasad Prasain, Hon'ble Vice Chancellor, Tripura University	10 minutes
		Address by Prof. Sibnath Deb, PhD, DSc, Director, RGNIYD, MYAS, GoI	10 minutes
		Vote of Thanks	4 minutes
	Time	Technical Sessions	Resource Persons
	11.00 AM to 12.15 PM	National Youth Policy in Digital Economy	Dr. Hari Shankar Shyam, Sharda University
	12.30 PM to 1.45 PM	Sustainable Development Goals and Youth Empowerment through Technology: A focused approach to the North East	Sri PooranPandeyResident Representative Climate Score card
	2.00 PM to 3.15 PM	Web 2 tools	Prof. Amlan Chakraborty, Calcutta University

25.11.20	9.30 AM to 10.45 AM	Web analytics	Dr. Saptarsi Goswami, Calcutta University
	11.00 AM to 12.15 PM	Development of apps	Dr. Amol ChandrabhanGoje, President, Society for Data Science, India.
	12.30 PM to 1.45 PM	Mobile marketing	Dr. Hari Shankar Shyam, Sharda University
	2.00 PM to 3.15 PM	Ethical Use of Digital Resources	Dr. Amol ChandrabhanGoje, President, Society for Data Science, India.
26.11.20	9.30 AM to 10.45 AM	Internet of things	Prof. Amlan Chakraborty, Calcutta University
	11.00 AM to 12.15 PM	AI Basics	Prof. Debotosh Bhattacharya, Jadavpur University
	12.30 PM to 1.45 PM	Block Chain Technology	CA Ashok Bhansali
	2.00 PM to 3.15 PM	Machine Learning	Dr. Tanushyam Chattopadhyay, TCS Research Lab
	3.15 PM to 3.30 PM	Feedback from the Participants	
	3.30 PM to 4:00 PM	Valedictory	

Annexure II: Profiles of Resource Persons

Pooran Chandra Pandey

Resident Representative to Climate Scorecard

Pooran Chandra Pandey specializes in development cooperation, international relations, sustainable development and public diplomacy across Asia, Africa and Europe. Founding CEO of a Berlin based global think tank- Dialogue of Civilizations Research Institute (2016-2018), he also Executive Director with the United Nations Global Compact (2011-2016) and Director, Times of India (2007-2011), India's largest media house.



Currently (2018-) serving as a Resident Representative to Climate Scorecard; a US based leading Climate Think Tank besides, he is also a Non-Resident Fellow at Nkafu Policy Institute, Cameroon, Professor of Practice, UTS, Sydney, Policy Adviser, New Zealand Centre for Global Studies, NZ and a Visiting Fellow at the NIICE, Nepal. He led the UN-endorsed public service campaign- Teach India, earning UNSG's appreciation. He also drafted seminal policy papers, point of view (PoV) documents and research reports for the UN, DFID, Ford, Rockefeller and Commonwealth Foundation.

Debotosh Bhattacharjee

Professor

Department of Computer Science and Engineering, Jadavpur University

Debotosh Bhattacharjee is working as a full Professor in the Department of Computer Science and Engineering, Jadavpur University having sixteen years of post-PhD experience. His research interests pertain to the applications of machine learning techniques for Face Recognition, Gait Analysis, Hand Geometry Recognition, and Diagnostic Image Analysis. He has authored or coauthored more than 110 journals, 140 conference proceedings publications, 30 book chapters in the areas of Biometrics and Medical Image Processing. Two US patents have been granted on his works. Prof. Bhattacharjee has been granted sponsored projects by the Govt. of India funding agencies for a total amount of around Rs. 3 crores. For postdoctoral research.



Dr. Bhattacharjee has visited different universities abroad like the University of Twente, The Netherlands; Instituto Superior Técnico, Lisbon, Portugal; University of Bologna, Italy; ITMO National Research University, St. Petersburg, Russia; University of Ljubljana, Slovenia; Northumbria University, Newcastle Upon Tyne, UK and Heidelberg University, Germany. He is a Fellow of West Bengal Academy of Science Technology, a life member of Indian Society for Technical Education (ISTE, New Delhi), Indian Unit for Pattern Recognition and Artificial Intelligence (IUPRAI), and a senior member of IEEE (USA).

Prof. Amlan Chakraborty
Professor
A.K.Choudhury School of Information Technology
University of Calcutta

Amlan Chakrabarti is a Full Professor in the A.K.Choudhury School of Information Technology at the University of Calcutta. He was also the former Dean, Faculty of Engineering and Technology of his University during (2016-2019). He was a Post-Doctoral fellow at the School of Engineering, Princeton University, USA during 2011-2012. He has almost 20 years of experience in Engineering Education and Research. He is the recipient of DST BOYSCAST fellowship award in Engineering Science (2011), Indian National Science Academy (INSA) Visiting Faculty Fellowship (2014), JSPS Invitation Research Award (2016), Erasmus Mundus Leaders Award (2017), Hamied Visiting Professorship from University of Cambridge, UK (2018) and SikshaRatna Award by Dept. of Higher Education Govt. of West Bengal (2018). He has also served in various capacities in various higher education organizations both at national and international levels.



Prof. Amol C. Goje
President
Society of Data Science

Amol C. Goje is a President of Society of Data Science and has served as a Director, Vidya Pratishthan's Institute of Information Technology (VIIT), Baramati, Pune for last 19 Years. He has a total of over Twenty Five years of experience in the field of Information and Computer Technology (ICT). Dr. Amol's main area of interest is to work for underprivileged people in the rural part of India and his noteworthy innovation is Computer Mobile Van, which are economically sustainable to the rural schools and colleges. He has done lot of research work in Information Technology and its application for rural community.



In appreciation to his exemplary work, Dr. Amol has received the Ashoka Fellow award in the year 2002. He is engaged as a Technical advisor on many government and non-government organizations.

He was also a member of the Planning Commission, Government of India in Information Technology division. Dr. Goje has received the Marathwada Bhushan Award for spreading the IT education to the masses. He is the member of the Working group on Agricultural Extension Constituted by Planning Commission government of India. He is key player in setting up the Community Training and Learning Centers (CTLIC) in Maharashtra, to provide Computer Training to the women from the Self Help groups (SHG).

CA Ashok Bhansali
Chartered Accountant

Around four decades of combined experience in the industry & academic organizations. For the last six years working as a free-lance financial advisor and adjunct/ visiting faculty, predominantly in the finance function as well as the digital transformation fueled by Blockchain and other transformative technologies. Developed the Virtual Finance Back Office alongwith the Virtual CFO Services as a part of advisory services. Entire Accounting & Finance function has been digitized Strategic leader & qualified finance professional with an entrepreneurial bent of mind offering 37 years (1983-2020) of multi-cultural & diversified experience in spearheading entire business operations, financial accounting and reporting, cash flow & fund flow management, new business strategy formulation & implementation, driving profit improvement initiatives through cost reduction, cost optimization, efficiency improvement and internal control across various industries such as automobile, blockchain, education, manufacturing, engineering, food and other renowned industries with presence across India & Overseas locations. Presented International papers at Singapore and India.



An accomplished entrepreneur who has successfully offered strategic advisory, support & services with respect to business & financial operations, setting up the business, formation of the company, ensuring compliance, corporate level trainings & statutory audit to major clients such as USA based MNCs in Manufacturing and trading of nylon polymers, CA firms and other major clients in diverse industries and cultural backgrounds.

Dr. Hari Shankar Shyam
Associate Professor
Marketing, School of Business Studies,
Sharda University

Associate Professor, Marketing, School of Business Studies, Sharda University, a Professional trainer to a wide range of sectors in India with 17 years of experience, Teaching Marketing, General Management and Business Research Methods, Consulting to Small, Medium and Large scale organisations, Expert in entrepreneurship, Research, CSR,IMC and Social Media Planning and Networking.



Dr. Saptarsi Goswami
Assistant Professor
Computer Science, Bangabasi Morning College affiliated to
University of Calcutta


Dr. Saptarsi Goswami is currently working as an Assistant Professor – Computer Science, Bangabasi Morning College affiliated to University of Calcutta. He has completed his Ph.D in the area of feature selection in the year 2018 from University of Calcutta. He has 18+ years of professional experience, out of which he has spent 10 + years in IT Services Industry in companies like Cognizant, PwC and Tata Infotech. He has briefly worked as a visiting scientist in Iwate Prefectural University, Japan. He has managed large data warehousing programs, as well as took active role in solutioning and designing. He has authored 50 + Journal, conference articles and book chapters. He is an executive member of Society for Data Science(S4DS) and also as organizing chair of International Conference of Data Management, Analytics and Innovation (ICDMAI-2021). He is working as a meetup Ambassador of Open Data Science Conference (ODSC) for Kolkata Chapter.



Dr. Tanushyam Chattopadhyay
Principal Scientist
TCS Research Labs

Dr. Tanushyam Chattopadhyay is currently working as a Principal Scientist at TCS Research Labs to deploy analytics on IoT platform. He was awarded with the University Gold medal in MCA from Shibpur IIST (the then DU) in 2002. He started his career as research in Indian Statistical Institute, Kolkata and later on, joined Tata Consultancy Services Limited in 2004.





Later he was awarded with the Ph.D degree from Jadavpur University for the work done at ISI, Kolkata, in 2012. He had training on Speech Signal processing from IISC Bangalore, image processing from IIT Kharagpur, and video processing from IIT Delhi. Also attended a course on Deep Learning from Prof. Bengio in 2015. He has 60+ patents got granted across the globe. He also authored a book and some book chapters. He has published nearly 70+ papers in peer reviewed journals and conferences. He is a member of International Machine Learning Society. Serving as a member of Board of Governor of several academic institutions. He has delivered tutorials/ keynote addresses and served as reviewer/Technical Program Chair/Session chair in number of international conferences and journal. His current research is evolved around developing an analytics solution for TCS built IoT platform namely TCS Connected Universal Platform (TCUP) which involves both research and engineering in different areas of data science.