



Brindavan College of Engineering

Dwarakanagar, Bagalur Main Road, Yelahanka, Bengaluru, Karnataka 560063
Affiliated to VTU Belagavi, Approved by AICTE, New Delhi and Govt. of Karnataka
Accredited at 'A' level by NAAC

Department of Computer Science & Engineering

Workshop Report on

"Data Science and Analytics in Real Time Application"

Organising Chair

Dr. Rajashekar Patil
Vice-Principal, Dean R&D,
Brindavan College of Engineering

Convener

Dr. Bhagappa
Professor & HOD,
Dept. of ISE
Brindavan College of Engineering

Co-ordinator

Prof. Divyashree H S
Assistant Professor, Dept. of CSE

Prof. Avinash N
Assistant Professor, Dept. of CSE

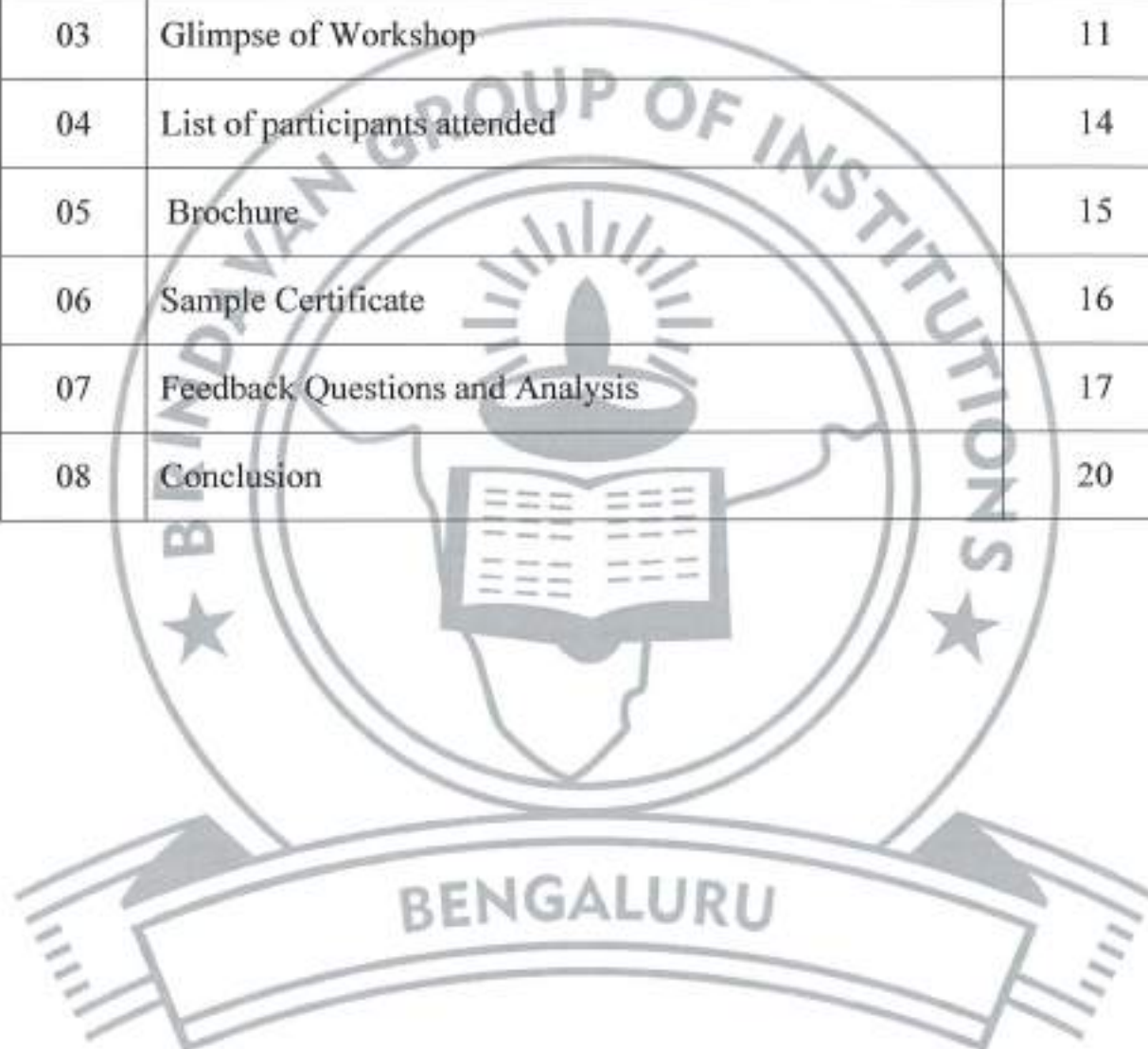
Resource Person

Dr. S.G. Sreekanth Swamy
Former Executive Secretary Karnataka
State Council for Science and
Technology (KSCST), Bengaluru

Date: 16th-17th June 2022

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Invitation



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In Association with

Karnataka Science and Technology Academy

DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION SCIENCE
ENGINEERING

With the blessings of our Honorable Chairman "PadmaShri" Dr. B R Shetty

Organizes Two Days Workshop on

**"Data Science and Analytics in Real
Time Application"**



Coordinators:
Ms. Divyashree H S
Asst. Professor, CSE
Mr. Avinash N
Asst. Professor, CSE

Convener
Dr. Bhagappa
HOD-ISE

Organizing Chair
Dr. Rajashekar Patil
Principal, BCE

About Resource Person

Profile:

Dr. S. G. Sreekanteswara Swamy

Former Executive Secretary
Karnataka State Council for Science and Technology, (KSCST)
Indian Institute of Science, Bengaluru – 560012.
And
Former Consultant,
Vision Group on Science and Technology (VGST)
Department of Science & Technology,
Government of Karnataka, Bengaluru – 560001.



- Academics and Experience:
- Completed M.Sc., from Bangalore University
- PhD in 'Geo Environmental Study of Mining Engineering activities in Western Ghats Regions of Karnataka', from Bangalore University.
- Undergone Professional training from the i) Indian Institute of Science, Bangalore, ii) Space Application Centre, Ahmedabad iii) Centre for Environmental Education Ahmedabad iv) Regional Remote Sensing Service Centre, ISRO, Bangalore v) Institute for Social and Economic Change, Bangalore vi) Society for Service to Voluntary Organisation, Bangalore and vi) National Institute of Advanced Studies, Bangalore
- Employment / Experiences:
- Worked as a Project Scientist and Executive Secretary in Karnataka Rajya Vignana Parishath, Bangalore, and the Director, Belgaum Science Centre, Belgaum.
- Served as Fellow and Principal Scientific Officer in Karnataka State Council for Science and Technology (KSCST), Indian Institute of Science, Bangalore from 1992 and superannuated as the Executive Secretary of KSCST in 2019.
- Served as a Technical Consultant, Vision Group on Science and Technology, Department of Science and Technology, IT & BT, Government of Karnataka from 2019 to 2021.
- Written, edited, translated and Authored books
 - Halley's Comet
 - Renewable Energy Sources
 - Water Resources of Tumkur District,
 - *Grameena Jeevana Thantragnanagala Baleke* (on Rural Technologies)
 - *Kasavendare Kasu* (on Solid Waste Management)
 - Technical Records were edited on Engineering Student's Projects year wise – 20 volumes
 - Compendium of Technical Projects Report – Published by DST, GOI.
 - Vidhyarthi Vijnaniya Dinachari (Translated from English to Kannada 365 Experiments)
 - A Tree and Child (Translated from English to Kannada)
- Joint Author for the following technical reports and submitted to the Karnataka State Pollution Control Board (KSPCB), Government of Karnataka,
 - Status Report on Municipal Solid Waste Management
 - Status Report on Biomedical Waste

- Status Report on Plastic Recycling in Karnataka

- Written more than 50 articles in Kannada on Science and Technology in various journals and magazines.
- Participated in radio and television programmes on various topics on Science and Technology
- Delivered more than 150 talks on Frontiers of Science and Technology issues in higher educational institutions across Karnataka.
- Research and Development projects and programmes
- In the areas of Education, IPR issues, Natural Resource Management, Waste Management and Water Quality Assessment and conservation related issues, assessing the Status of Kalyanis for rejuvenation in different Agro Climatic Zones of Karnataka, Identification of Strategies for mapping the needs of Science and Technology in a State, Recovery of Metals and Disposal of Certain Hazardous Components in E-waste, Identification & characterization of SWM sites and its impact study on water and soil in the State, Study on the effluent and hazardous waste management practices in Doddaballapur Industrial Area based on Industrial Ecology Concept, Treatment of Desiccated Coconut and waste water etc.
- Technical papers published jointly (6 No).
- An inventory of technical projects & programmes was prepared (1975 -2000) for KSCST
- Virtual Class Laboratory:
 - Executed as the Principal Investigator for the establishment of "Virtual Laboratory" concept in Government High Schools of backward Talukas in Karnataka during 2013-14 sanctioned by the Department of Science and Technology, Government of Karnataka. Provided Digital Syllabus for General Science, Mathematics and Social Sciences for High Schools and established a studio at KSCST for beaming of Science Webinars. Further received Rs.1.70 crores as CSR funds from Ministry of Power, GOI.
- Engineering Students Projects Programme:
 - Executed as the Principal Investigator of Engineering Student Project Programme of KSCST from 1997 to 2019 – interacted and encouraged more than 25,000 engineering students and more than 2000 engineering faculty during this period. Further edited 20 Technical Compendium. Encouraged engineering colleges to develop workable technologies under this programme.
- SPREAD – (Student Projects Review, Exhibit, Award, Document) application software developed using Microsoft Visual Basic for browsing and querying the SPP Database with CD
- Organised and Coordinated around 25 State Level workshops and exhibition
- Projects guided for engineering students of BITS Pilani, and others -10 No.
- S&T Conferences:
 - Conducted and organised three State Level Science and Technology Congress (1) Bangalore,(2) Bangalore & (3) Mysore for the benefit of the public, government officials and teaching fraternity. Published detailed reports on the same.
 - Conducted and Organised around 30 workshops on S&T issues for high school & college students including National Science Day, National Mathematics Day, SSIP and Origami
- Scientific Specialization:
 - Earth Sciences and Environment, S&T outreach activities, Technology dissemination, Waste resource management and Water quality issues and Education,
 - Frontier Lecture Series on S&T:
 - On the occasion of 150th Birth Anniversary of Baharat Rathna Sir M. Visvesvaraya – 169 technical lectures were organised all over the State from 15th September 2010 to 31st March 2012 and benefitted by 27,000 students (University & Engineering)
- Scientific Contribution:
 - Formulation of the Project Proposals, Implementation of the Proposals, Evaluation & Report preparation

- **At Vision Group on Science and Technology:**

- Worked as a Consultant- refining and initiated the Project implementation and regular Technical Review Meetings for ongoing projects
- Initiated and Implemented Project Proposal Management System (PPMS) software for VGST programmes
- Organised and Conducted Workshops on Physical and Biological Sciences in State Universities.
- Conducted and organised Awareness programme on Solar Eclipses during 2019 and benefitted 300 high schools and 45,000 students and 1000 teachers and distributed 300 kits (each kit 35 posters) on History of Astronomy.
- Developed a system for fund flow and auditing of the projects
- **Other details:**
- Educational issues, Application of technologies in rural and peri urban areas
- Knowledge Dissemination:

Regularly conducted S&T programmes for faculty and students on Science and Technology topics

- Initiatives:

Responsible for establishing the Education and Energy Cell and Interactive Studio (Virtual beaming) at KSCST and PPMS software, Regular reviews of ongoing projects at VGST.

- Administrative Assignments:
- Served as Executive Secretary KRVP, Director Belgaum Science Centre and Executive Secretary KSCST, IISc, and Consultant VGST, DST, Government of Karnataka
- Encouraged and supported the educational institutions to carry out research activities and infrastructure development through projects and special programmes of government.
- Instrumental in getting more than 500 lakhs as Project and Programme grants from DST-GoI

DST-GoK, MHRD, KSPCB, Department of Power, GoI to KSCST.

- Date of Birth: 08/02/1959.

Residential address:

No.429, II Cross, II Block, HMT Layout, Nagasandra Post,
Bengaluru – 560 073. Email: swamysgs@gmail.com
Mob: 9448515976
(S. G. Sreekanth Swamy)

GELUVARAJ.B

PAPERS PUBLICATION:

INTERNATIONAL CONFERENCE:

1. Presented In International Conference on Security Which Held At Garden City University Paper Titled "The Role Of Artificial Intelligence, Machine Learning And Deep Learning In Cyber Security In Future" And Secured BEST PAPER AWARD Published In ISBN No-978-93-86516-43-6
2. Presented in International Conference On Computer Networks And Inventive Communication Technologies (ICCNCT-2018) Paper Titled "The Future Of Cyber Security Major Role Of Artificial Intelligence, Machine Learning And Deep Learning In Cyber Space" ISSN: 2367-4512 Paper Is Published In Springer Lecture Notes On Data Engineering And Communications Technologies
3. Presented In International Conference Knowledge Transfer Conclave Held At Garden City University Paper Titled "An Impact Of Artificial Intelligence On Education And Universities In The Future" And Published In ISBN No-978-93-86516-46-6
4. Paper Presented In SRRNET International Conference Paper Titled" Development Of Green Supply Chain Management Through CSR Activities In Private And Public Sectors" It Will Be Published In Emerald Publications
5. Paper Presented In "International Conference On Multidisciplinary Approach Of Science: Nano Technology – A Boon For A Mankind. Paper Titled "A Deep Insight On Nano Technology And Its Benefits To Society Today And Future" And Published In ISBN:978-93-86516-59-6
6. Paper Presented In "International Conference On Artificial Intelligence And Machine Learning" Paper Titled: Predictive And Path Finding Modeling Machine Learning Algorithms Inspired By Mother Nature"



SPRINGER(SCOPUS) INTERNATIONAL CONFERENCE:

Presented in International Conference On Computer Networks And Inventive Communication Technologies (ICCNCT-2018) Paper Titled "The Future Of Cyber Security Major Role Of Artificial

1. Intelligence, Machine Learning And Deep Learning In Cyber Space" ISSN: 2367-4512 Paper Is Published In Springer Lecture Notes On Data Engineering And Communications Technologies
2. Presented in Springer International Conference on Computing Science, Communication and Security (COMS2)-2021, Paper Titled "An Implementation and Combining of Hybrid and Content Based and Collaborative filtering algorithms for the Higher Performance of Recommended Systems" Paper will be published in Springer Communications in Computer and Information Science (CCIS) conference series.
3. Paper Presented and Recommended for publication in International Conference on Pervasive Computing and Social Networking (ICPCSN 2021), Paper will be published in Springer Lecture Notes in Networks and Systems. Paper Titled "A Hybrid approach to resolve Data sparsity and Cold start hassle in Recommender Systems"

UGC APPROVED JOURNAL:

1. Paper published in "IJARIE" paper titled "the complete study on python scripting language and its guide" ISSN no:2395-4396

2. Paper published in non-paid journal titled "A disquisition on artificial intelligence: and its significance in me-bad" in the journal of "journal of artificial intelligence research & advances" ISSN no: 2395-6720
3. Published a paper in an "International Journal Of Innovations & Advancement In Computer Science" paper titled: performance analysis of proactive congestion control techniques for VANETS

SCOPUS/Web of Science INDEXED JOURNALS:

1. International Journal of Grid and Distributed Computing Vol. 13, No. 1, (2020), pp. 708-713
Title: A Novel Hybrid Approach for Machine Learning Based Recommended Systems.
2. Turkish journal of Computer and Mathematics education Vol 12 issue 2 (2021) pp- 3313-3319
Title: A Matrix factorization technique using parameter tuning of singular value decomposition for Recommender Systems

PATENTS:

1. Title: IoT Based Detection of temperature and humidity using wireless sensors
Publication Date: 30/07/2020
2. Title: Enhanced Biometric based Digital Circulation of encrypted Question paper
Publication Date: 25/09/2020

CHAPTER/BOOKS UNDER EDITING:

1. Book Titled: Computational Intelligence and Its Applications in Healthcare, Elsevier Publishers, Chapter titled: Artificial Intelligence and Machine Learning a Transformational Force in Healthcare is under Editing stage accepted by the publisher.
2. Book Titled: Machine learning Today and Tomorrow under editing stage single author book

AS A CO-AUTHOR:

1. Presented in International conference Knowledge transfer CONCLAVE held at garden city university Paper Titled "Crypto currency: The future of digital of digital economy" and Published in ISBN no-978-93-86516-46-6

2. Paper Published and UGC approved journal Paper titled "A Study on Applications of AI, ML, DL And Block chain In Healthcare And Pharmaceuticals And It's Future" in "International journal of computer science and engineering" ISSN no:2347-2693

AS A REVIEWR:

1. Life time Editorial board member for Prestigious Central European Journal of international and security studies which is own by the Metropolitan University Prague, CZECH REPUBLIC and journal is Indexed by the SCOPUS.
2. Reviewed Articles for the Springer conference which held at Gandhi institute of technology, Orissa

WORKSHOP:

1. Participated 2days Workshop on "Big-Data Analytics in Deep Learning" @ Mount Carmel college, Bangalore
2. Participated in "National Summit on Entrepreneurship and Technology" @GCU, Bangalore.Participated in workshop on "Intellectual Property Rights: Opportunities and Prospects" @GCU, Bangalore.
3. Participated in Workshop on "MACHINE LEARNING" workshop @ CMRIT College, Bangalore.

As A RESOURCE PERSON:

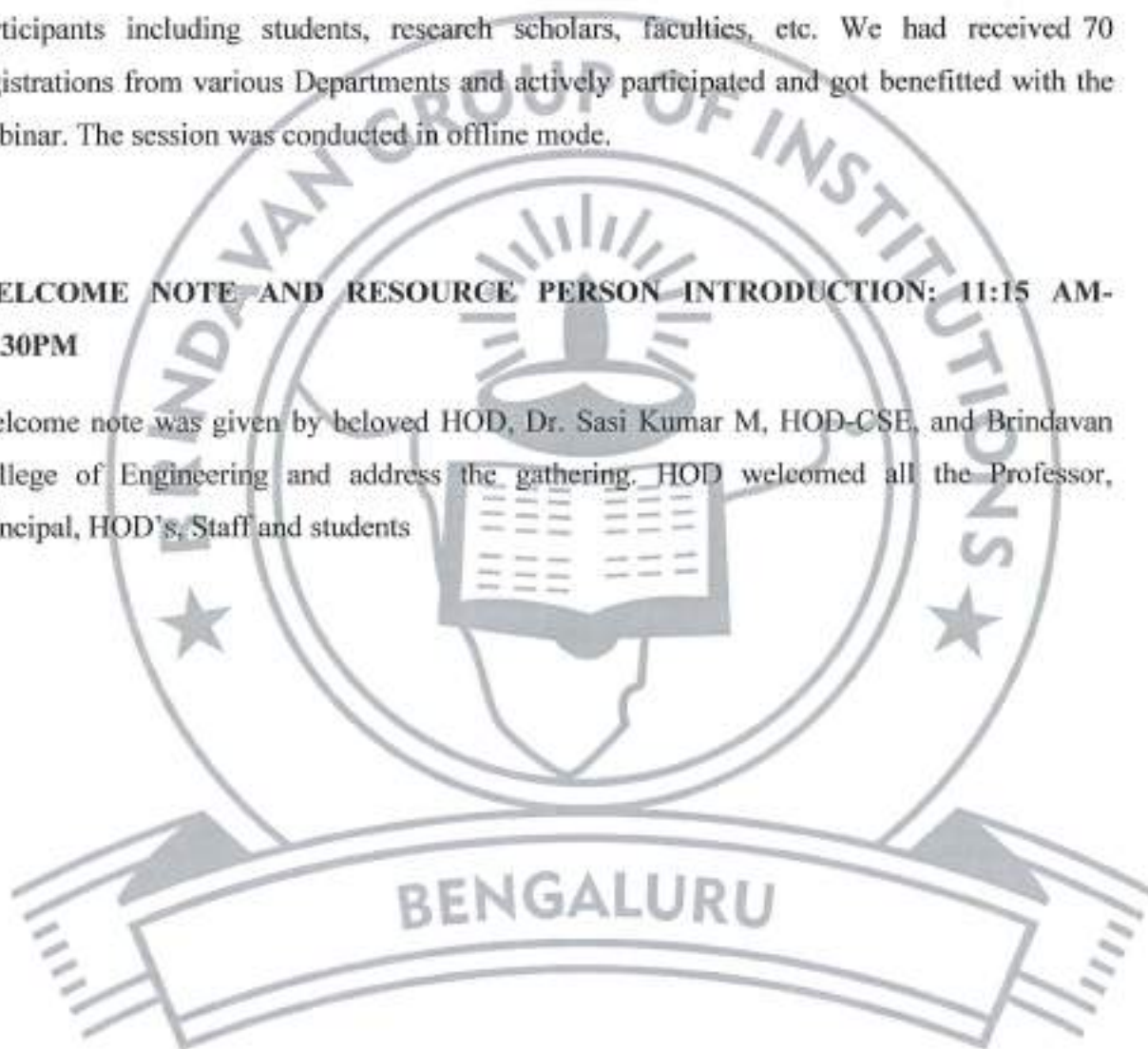
1. Topic: "INTERNET OF THINGS" for IQAC in Government First Grade College, Kadugodi, Bangalore.
2. Topic: "Creating a Interactive Dashboard through MS EXCEL" Resource Person for Government First Grade College, Harihara.

WORKSHOP DATE AND TIME:

The Workshop was conducted on 16TH-17TH June 2022. The first session was from 11:30AM-01:00PM by Dr.S.G.Sreekanteswara Swamy, second session was from 02:00PM – 04:30PM by Dr.Niranajan R Chougala , third session was from 10:00AM – 12:30PM on 17th by Dr.Hema Malini B.H, fourth session was from 01:30PM – 03:30PM on 17th by Mr.Geluvaraj B. Registration was kept open and free for all the participants including students, research scholars, faculties, etc. We had received 70 registrations from various Departments and actively participated and got benefitted with the webinar. The session was conducted in offline mode.

WELCOME NOTE AND RESOURCE PERSON INTRODUCTION: 11:15 AM-12.30PM

Welcome note was given by beloved HOD, Dr. Sasi Kumar M, HOD-CSE, and Brindavan College of Engineering and address the gathering. HOD welcomed all the Professor, Principal, HOD's, Staff and students



Some Glimpse of Workshop



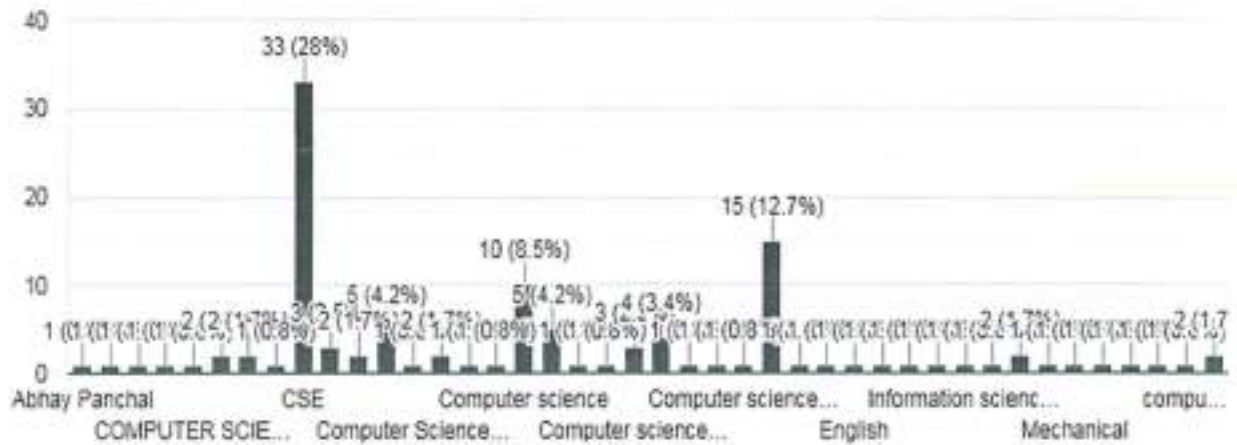




LIST OF REGISTERED PARTICIPANTS

DEPARTMENT :

118 responses



DESIGNATIONS:

118 responses



- Professor
- Associate Professor
- Assistant Professor
- Research scholar
- Student
- Others

BROCHURE

ABOUT THE INSTITUTION

Brindavan Group of Institutions, Bengaluru, India is a premier educational institution of higher learning in the Garden city, Silicon Valley and the knowledge capital of India. The college is located in a calm, serene and eco-friendly environment of Bengaluru. Brindavan Group of Institutions, with 28 years of existence is a comprehensive, student-focused institution with over 6000 students enrolled in a broad range of Research, Undergraduate, the University Diploma, and Post graduate programs including several professional programs such as Business, Engineering, Architecture, Commerce, Aviation, Journalism and Industry/Oriented Skills. The Brindavan Group of Institutions is recognised by Government, approved by All India Council for Technical Education (AICTE), New Delhi which is the statutory body to approve professional courses and affiliated to Bengaluru City University & VTU, the biggest in Asia, accreditation by NAAC, Institute by Government & Recognised by UGC. Students from more than 22 overseas countries have been sponsored by Government of India through Indian Council for Cultural Relations (ICCR), New Delhi with scholarships to study various UG and PG programmes in our college. It has over 6000+ students from 46 overseas countries.

“
**Brindavan College
of Engineering,
Bengaluru**

CONTACT

Phone
+91 80 2647 8388 / 8423
Voice:974254614

Mr. Avinash N - 9008772358
Ms. Divyashree H S - 7892823000

Email
bhagappa.mys@gmail.com
bhagappa@brindavancollege.com

Address
Department of CSE, Brindavan College
of Engineering, Dwarakanagar,
Bagalur Main Road, Yelahanka,
Bengaluru-560063, Karnataka, India

Call for info

**TWO-DAY
WORKSHOP
ON DATA SCIENCE
AND ANALYTICS
IN REAL TIME
APPLICATIONS**



**Brindavan College
of Engineering, Bengaluru**



**Association with
Karnataka Science and
Technology Academy**

**ORGANISED BY
DEPARTMENT OF CSE/ISE**

JUSTIFICATION

Many made intellectual progress with Data Science are accepting outcome throughout the state of the art time and are changing the high level time in their existing activities.

Topics Covered

- How to use data science in medical field.
- Applications of data science in artificial intelligence.
- How to identify the pattern data.
- How to identify smart mail.

PROGRAM OBJECTIVE

- ✓ Auto complete.
- ✓ Auto correct.
- ✓ Smart face lock.
- ✓ Virtual Assistant.
- ✓ Optical Character Recognition.
- ✓ Medical.
- ✓ E-mail spam filtering.

DR. B R SHETTY

Chairman,
Brindavan Group of Institutions

DR. RAJASHEKAR PATIL

Principal,
Brindavan College of Engineering

ORGANIZING TEAM

DR. BHAGAPPA, ASSOCIATE PROFESSOR

Department of ISE,
Brindavan College of Engineering

DR. SHIVAMURTHAIAH M ASSOCIATE PROFESSOR

Department of CSE,
Brindavan College of Engineering

PROF. AVINASH N, ASSOCIATE PROFESSOR

Department of CSE,
Brindavan College of Engineering

PROF. DIVYASHREE H S, ASSOCIATE PROFESSOR

Department of CSE,
Brindavan College of Engineering

WHO CAN PARTICIPATE?

Research scholars, PG scholars, UG students, Academicians and Industrial experts who can share their expertise in the relevant research field in the form of presentation and publication. Research, Reviews and other upcoming technological articles in the respective fields are welcome.

CERTIFICATE



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
In Association With
Karnataka Science and Technology Academy
DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION SCIENCE ENGINEERING


Two Days Workshop on
"Data Science and Analytics in Real Time Application"

Certificate of Participation

This is to certify that _____ of _____ has participated in Two days Workshop "Data Science and Analytics in Real Time Application" held on 16th - 17th June 2022 at Brindavan College of Engineering, Bengaluru, Karnataka - 560063.


Dr. Bhagappa
Convener

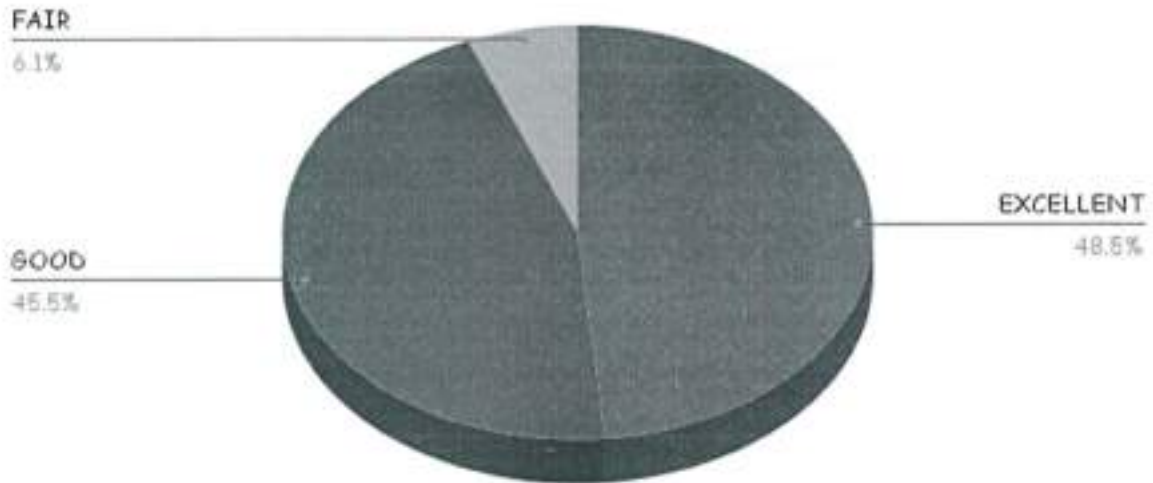

Dr. Rajashekar Patil
Patron


Dr. Ramesh A.M
CEO, KSTA

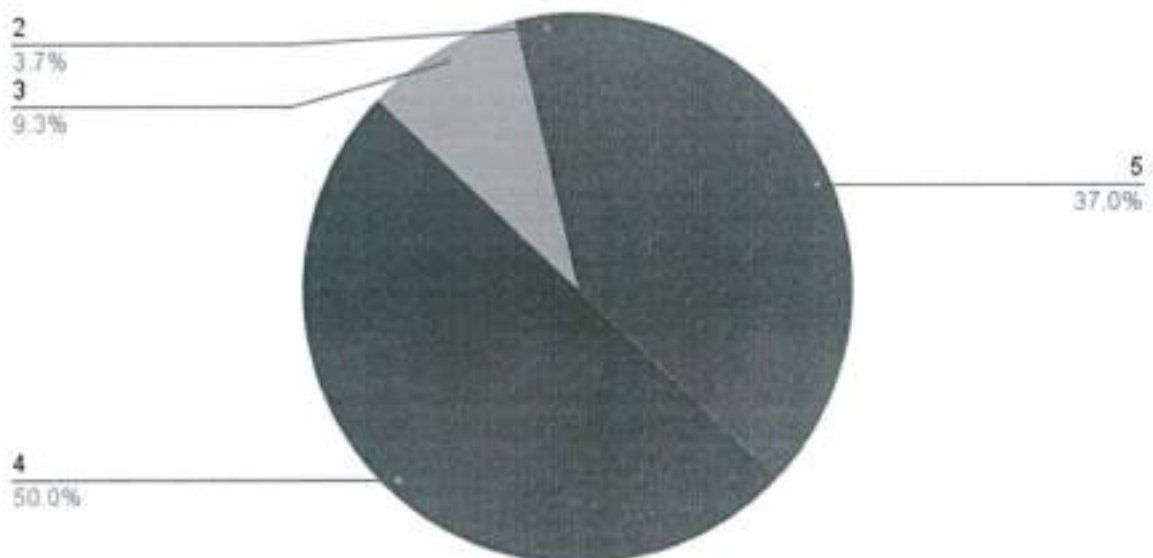
BENGALURU

FEED-BACK FORM RESPONSES

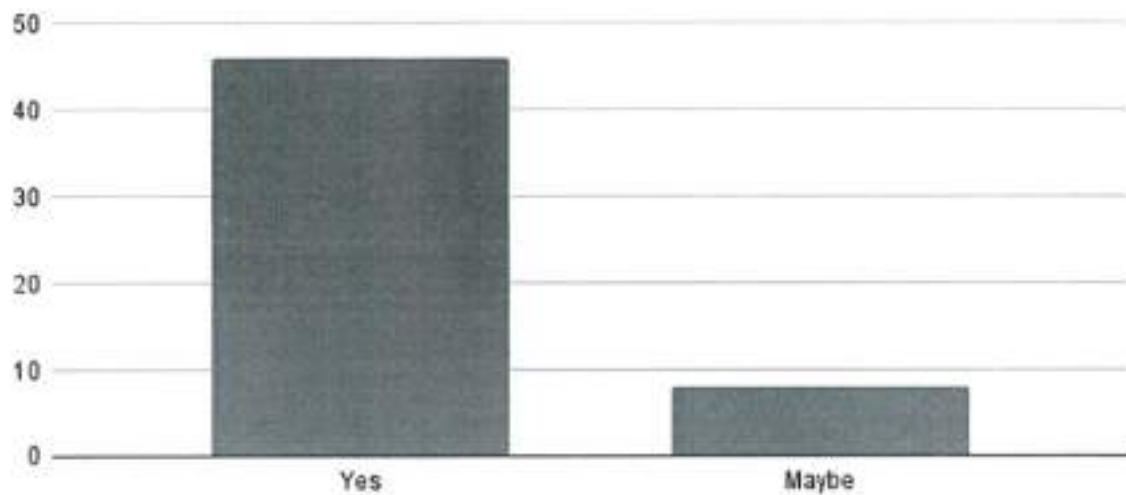
1. How was the Webinar



2. How would you rate the Presentation of the Resource Person?

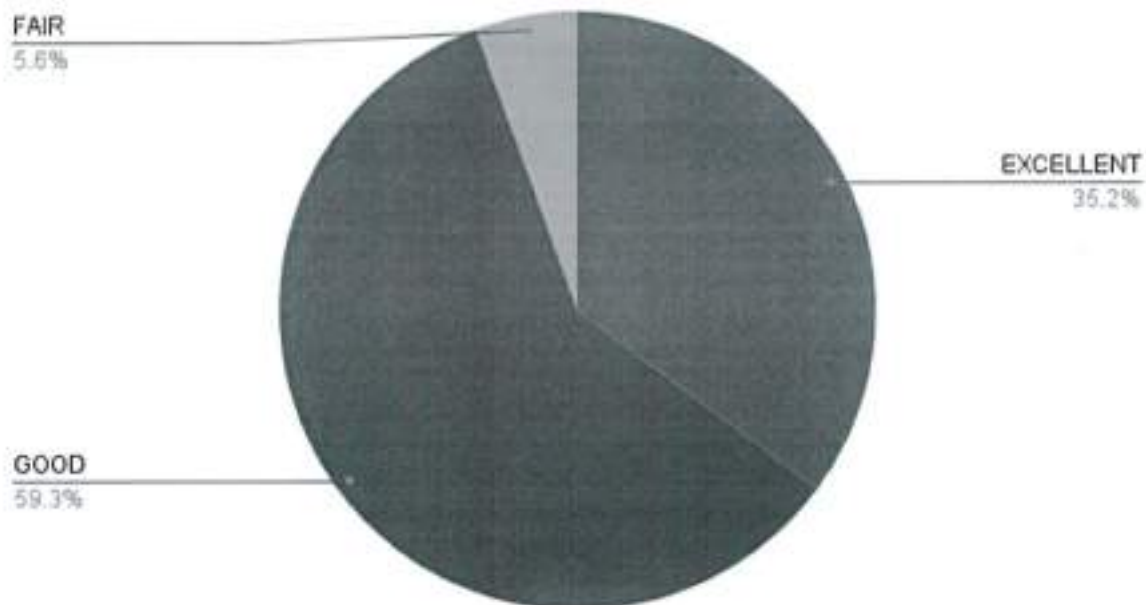


Count of 3. Would you like to attend such Webinars/FDP/Conferences in Future?

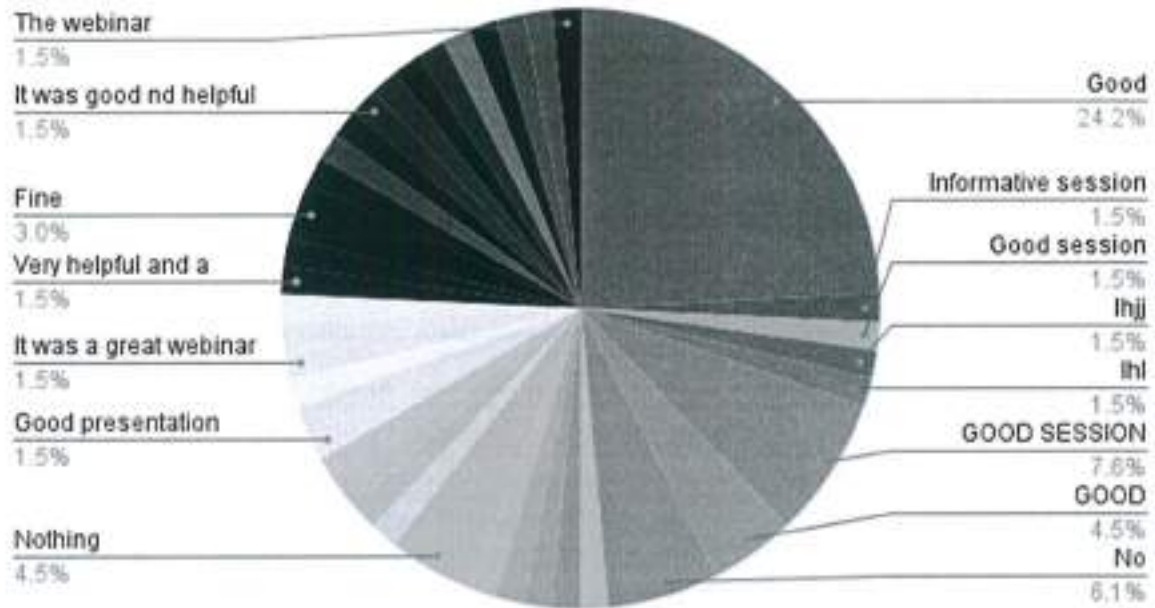


Count of 3. Would you like to attend such Webinars/FDP/Conferences in Future?

Count of 4. How do you rate Overall Webinar?



Count of 5.Feedback or Any other Suggestions?

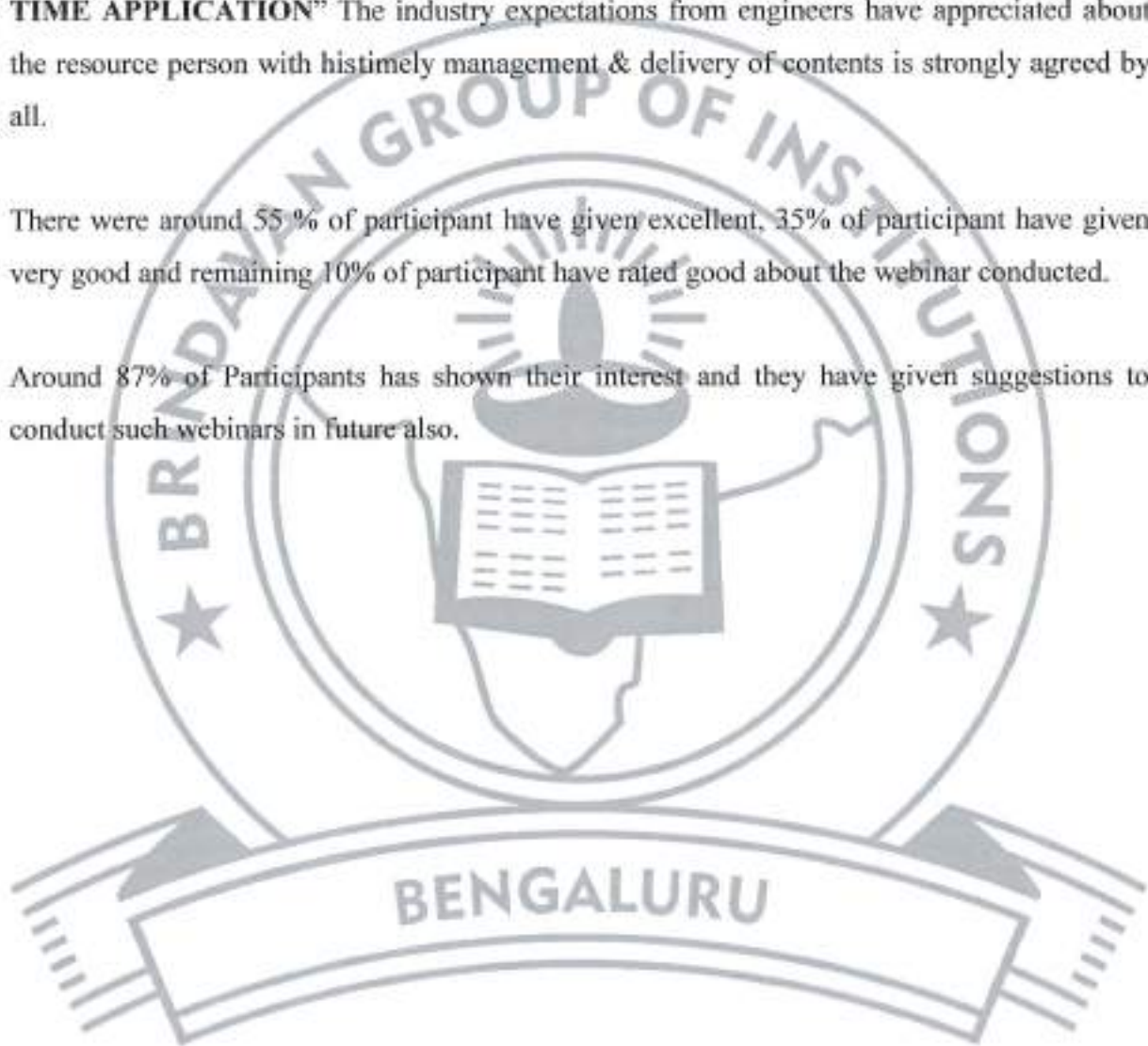


Conclusion

As per the feedback responses received from the participants, around 70% of the participants have attended this webinar on the topic “**DATA SCIENCE AND ANALYTICS IN REAL TIME APPLICATION**”. The industry expectations from engineers have appreciated about the resource person with his timely management & delivery of contents is strongly agreed by all.

There were around 55 % of participant have given excellent, 35% of participant have given very good and remaining 10% of participant have rated good about the webinar conducted.

Around 87% of Participants has shown their interest and they have given suggestions to conduct such webinars in future also.



Head of the Department
Department of CSE
Brindavan College of Engineering
Dwarkanagar, Bagalur Main Road
Yelahanka, Bangalore - 63.





Department of Computer Science & Engineering

Workshop Report on

"Machine Learning Algorithms Using Python"

Organising Chair

Dr. Rajashekar Patil
Vice-Principal, Dean R&D,
Brindavan College of Engineering

Convener

Dr. Shivamurthaiah M
Assistant Professor, Dept. of CSE
Brindavan College of Engineering

Workshop Co-ordinator

Prof. Meena Kumari K.S
HOD, Dept. of CSE

Dr. Bhagappa

HOD, Dept. of ISE

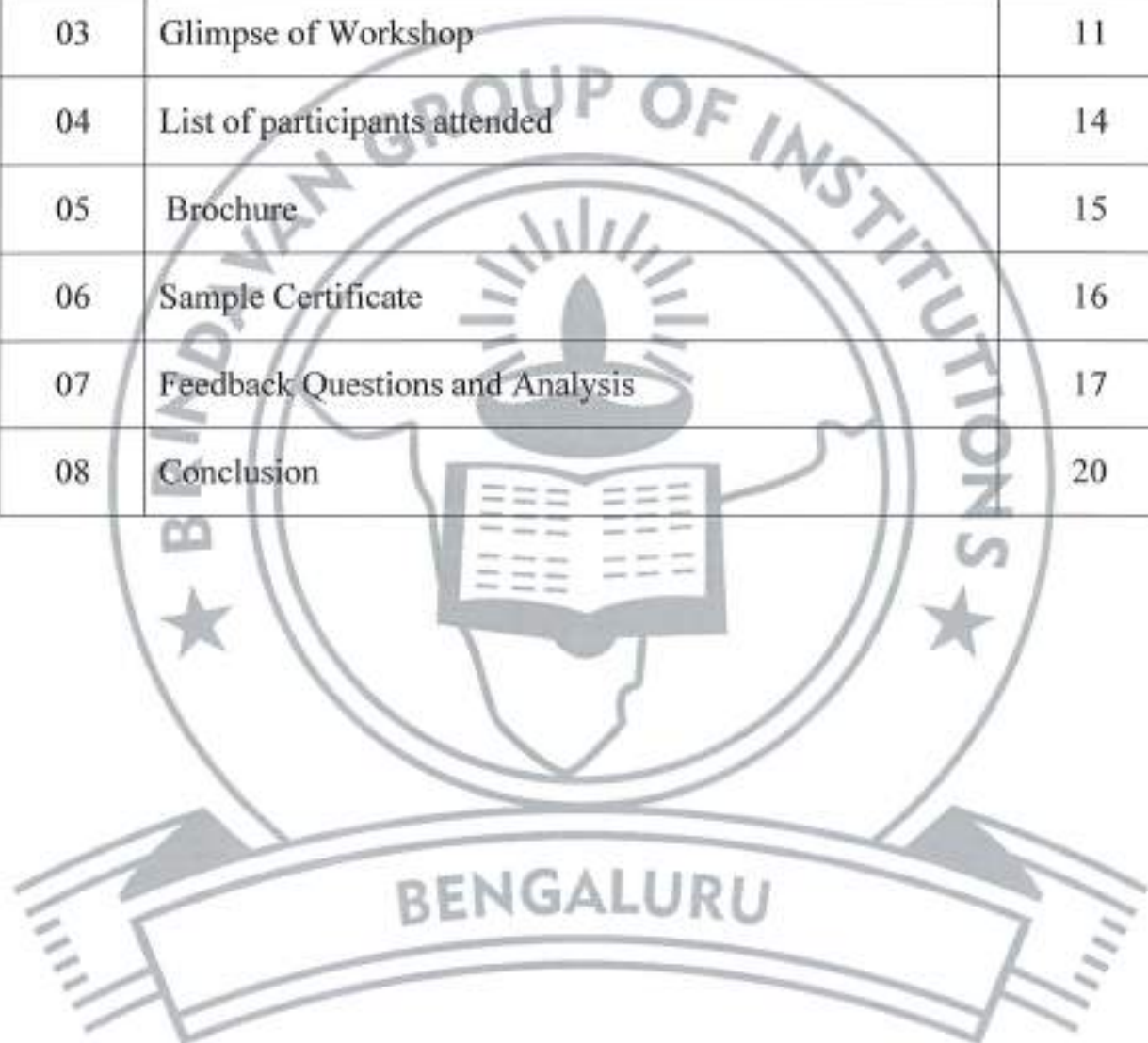
BENGALURU Resource Person

Dr. Rajashekar Patil
Vice-Principal, Dean R&D,
Brindavan College of Engineering

Date: 21st-22nd June 2022

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Webinar Invitation



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DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION SCIENCE
ENGINEERING

With the blessings of our Honorable Chairman "PadmaShri" Dr. B R Shetty

Organizes Two Days Workshop on

**"Machine Learning Algorithms Using
Python"**



Coordinators:
Prof.MeenaKumari K S
HOD-CSE
Dr.Bhagappa
HOD-ISE

Convener
Dr. Shivamurthiah M
Associate Professor-CSE

Organizing Chair
Dr. Rajashekar Patil
Principal, BCE

About Resource Person

Profile

DR. RAJASHEKAR PATIL

Dr. Rajashekar Patil is working as Dean & Principal at Brindavan College of Engineering. Has received many awards like Academic Excellence Award 2018 as "CAED GURU" from Altem Technologies on 14.12.2018 at Bengaluru, Karnataka, Zero-Investment Innovations for Education Initiatives "ZHEI AWARD" from Sri Aurobindo Society on 02.03.2020 Received "BEST PRINCIPAL AWARD" for the year 2021 in recognition of Outstanding contribution in active participation as Principal for the implementation of "Green and Plastic Free Campus" by Jeevanmukthi Foundation on 14.05.2021



Prof.GELUVARAJ.B

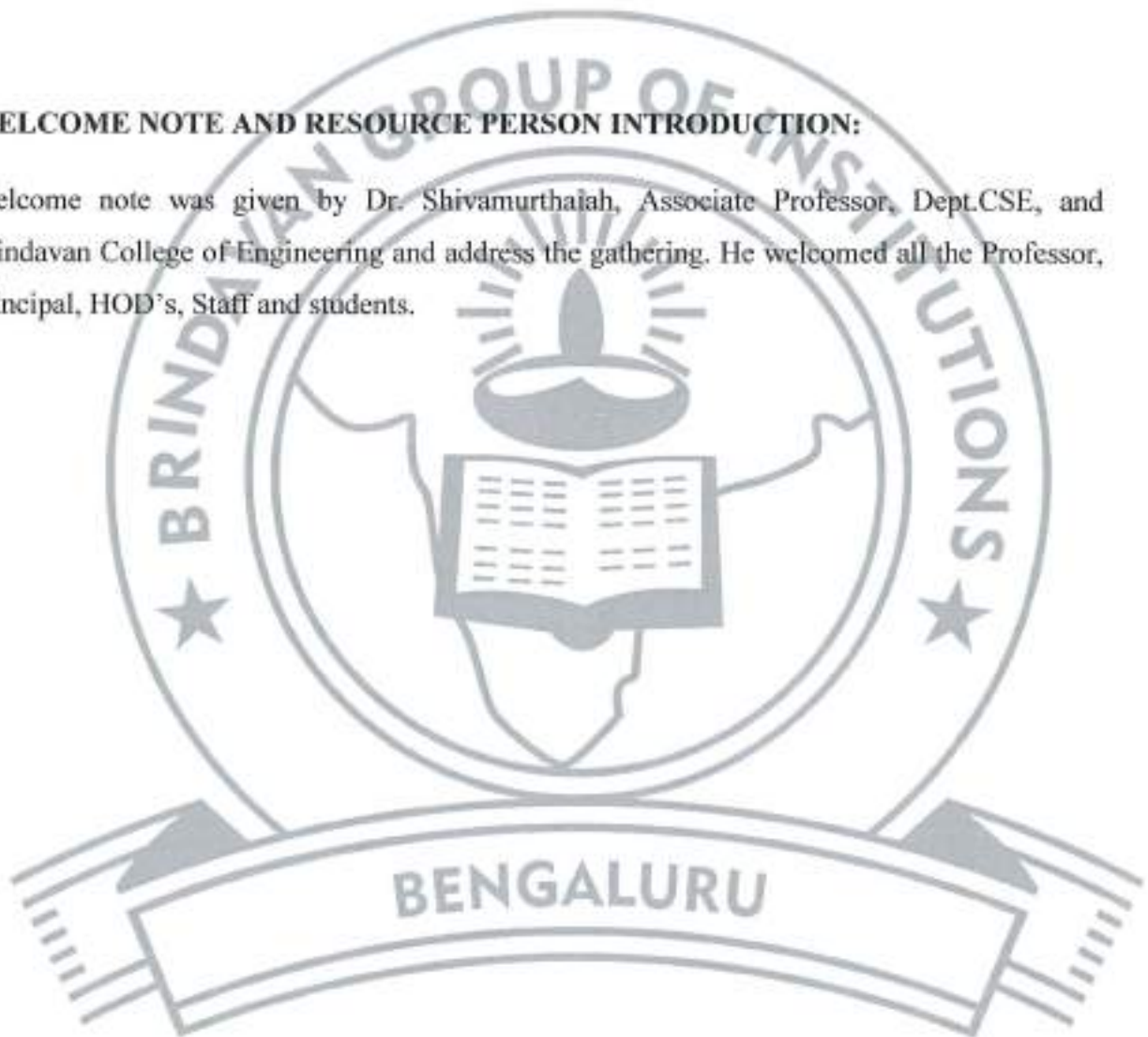
1. Presented In International Conference on Security Which Held At Garden City University Paper Titled "The Role Of Artificial Intelligence, Machine Learning And Deep Learning In Cyber Security In Future" And Secured BEST PAPER AWARD Published In ISBN No-978-93-86516-43-6
2. Presented in International Conference On Computer Networks And Inventive Communication Technologies (ICCNCT-2018) Paper Titled "The Future Of Cyber Security Major Role Of Artificial Intelligence, Machine Learning And Deep Learning In Cyber Space" ISSN: 2367-4512 Paper Is Published In Springer Lecture Notes On Data Engineering And Communications Technologies
3. Presented In International Conference Knowledge Transfer Conclave Held At Garden City University Paper Titled "An Impact Of Artificial Intelligence On Education And Universities In The Future" And Published In ISBN No-978-93-86516-46-6
4. Paper Presented In SRRNET International Conference Paper Titled" Development Of Green Supply Chain Management Through CSR Activities In Private And Public Sectors" It Will Be Published In Emerald Publications

WORKSHOP DATE AND TIME:

The Workshop was conducted on 21st-22nd July 2022. The session was delivered by Dr. Rajashekar Patil, Registration was kept open and free for all the participants including students, research scholars, faculties, etc. We had received 70 registrations from various Departments and actively participated and got benefitted with the webinar. The session was conducted using the Zoom platform.

WELCOME NOTE AND RESOURCE PERSON INTRODUCTION:

Welcome note was given by Dr. Shivamurthiah, Associate Professor, Dept.CSE, and Brindavan College of Engineering and address the gathering. He welcomed all the Professor, Principal, HOD's, Staff and students.



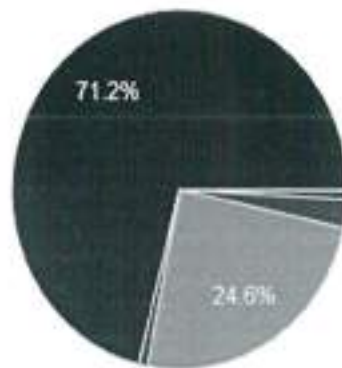
Some Glimpse of Workshop





LIST OF REGISTERED PARTICIPANTS

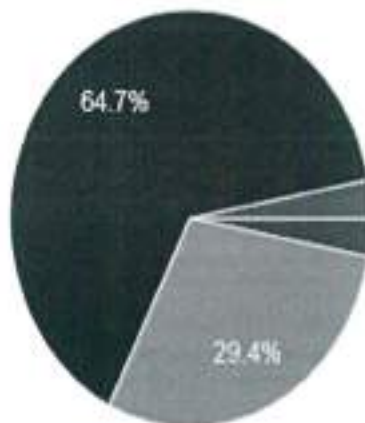
118 responses



- Professor
- Associate Professor
- Assistant Professor
- Research scholar
- Student
- Others

DESIGNATIONS:

34 responses



- Professor
- Associate Professor
- Assistant Professor
- Research Scholar
- Student
- Other

BROCHURE

ABOUT DEPARTMENT

The Department of Computer Science and Engineering, since its inception in 2008 came with an initial intake of 60 students in UG programme and enhanced its intake to 120 in the year 2012.

Always attracted the best of engineering aspirants from all over the country and abroad.

Department is effective in inducing skilled and competent Computer Engineers and Entrepreneurs prepared to fulfil the requirements of the industry and society at large.

Department is well equipped with adequate infrastructure to support academic, research and extra-curricular activities for the all-round development of our students with well-qualified skilled and experienced faculty members.

The Department frequently organizes hands-on Workshop, Seminar, Webinars, Guest lectures and Faculty Development Programs in recent trends from industry Resource for the benefit of students and faculty community.

The Department organizes National Conference "NICE" every year which provides Research & Developmental opportunities to research scholars and students from various colleges across the country.

The Department encourages the students to conduct and participate in extracurricular/sports activities.

COLOSSUS is a two day National Level Tech fest organised by the Department of Computer Science and Engineering. The fest receives participation from various colleges across the country.

The Department has signed MoU's with leading IT industries and International Journals. The Proctorial and Mentoring system is active by meeting students and conducts Parents Teachers Meeting.

The Alumni network is active and regular meetings are conducted by the Department.

The Students are placed and have succeeded in carving respective positions in top MNC companies and many have opted for higher studies in various foreign Universities, ETs etc.

B G I

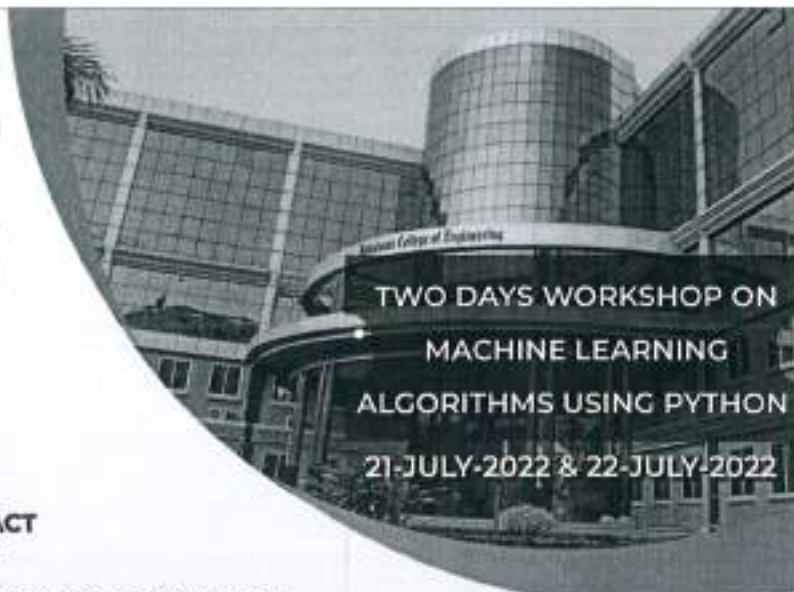
CONTACT

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Department of CSE,
Brindavan College of Engineering,
Dwarakanagar, Bagalur Main Road,
Yelahanka, Bengaluru - 560 063,
Karnataka, India



TWO DAYS WORKSHOP ON
MACHINE LEARNING
ALGORITHMS USING PYTHON
21-JULY-2022 & 22-JULY-2022



Brindavan College of Engineering
Bengaluru

ASSOCIATION WITH
Karnataka Science and Technology
Academy

ORGANISED BY DEPARTMENT OF CSE/ISE

"Padma Shri" Dr. B R SHETTY

Chairman -BGI

Dr. RAJASHEKAR PATIL

Principal - BCE

CONVENER

Dr. SHIVAMURTHIAH M

Associate Professor, CSE, BCE

Associate Member, KSTA

CO-ORDINATORS

Prof. MEENA KUMARI K S

HoD, CSE

Dr. BHAGAPPA

Professor & Head, ISE

ORGANIZING MEMBERS

PADMAVATHI H G

Associate Professor, CSE

AVINASH N

Associate Professor, CSE

RAKESH B S

Associate Professor, CSE

SANDEEP K H

Associate Professor, CSE

BHARATHI J

Associate Professor, CSE

DIVYASHREE H S

Associate Professor, CSE

MEGHANA SAMBARE R

Associate Professor, CSE



TOPICS COVERED

- Business Applications of Analytics.
- Differentiating Analytics and Statistics.
- ML: Classification, prediction, and Association.
- Business Analytics: process Cycle.
- Objective to Model Deployment.
- Data Exploration and Dimension Reduction
- Data Imputation Methods
- Handling Categorical Data
- Visual representation of Data
- Multiple Linear Regressions (MLR): Theory & walk through with python.
- clustering & Segmentation: Theory & walk through with python
- Affinity / Association Analysis: Theory & walk through with python.

HEARTY WELCOME TO ALL

LEARNING OBJECTIVES:

- Understand how Analytics is different from/similar to Statistics.
- Comprehend business analytics process
- Knowledge on various Machine Learning Algorithms
- [MLA], tools and techniques to derive data driven insights.
- Build and understand predictive (regression models) models.
- Compare and Interpret Complex Models.
- Explore pattern through Clustering/Segmentation.
- Perform Market Basket Analysis on Transaction data.

WHO CAN PARTICIPATE?

Research Scholars , PG Scholars, UG Students, Academicians & Industrial experts who can share their expertise in the relevant research field . Form of Presentation and publication, Research, Reviews and other upcoming technological articles in the respective fields are welcome.



CERTIFICATE



Brindavan College of Engineering

Dwarakanagar, Bagalur Main Road, Yelbhanke, Bengaluru, Karnataka 560063
Affiliated to VTU Belagavi, Approved by AICTE, New Delhi and Govt. of Karnataka.
Accredited 'A' level by NAAC




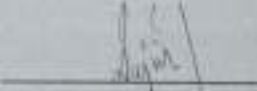
In Association With
Karnataka Science and Technology Academy
DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION SCIENCE ENGINEERING


Two Days Workshop on
"Data Science and Analytics in Real Time Application"

Certificate of Participation

This is to certify that _____ of _____ has participated in Two days Workshop "Data Science and Analytics in Real Time Application" held on 16th - 17th June 2022 at Brindavan College of Engineering, Bengaluru, Karnataka - 560063.


Dr. Bhagappa
Convener

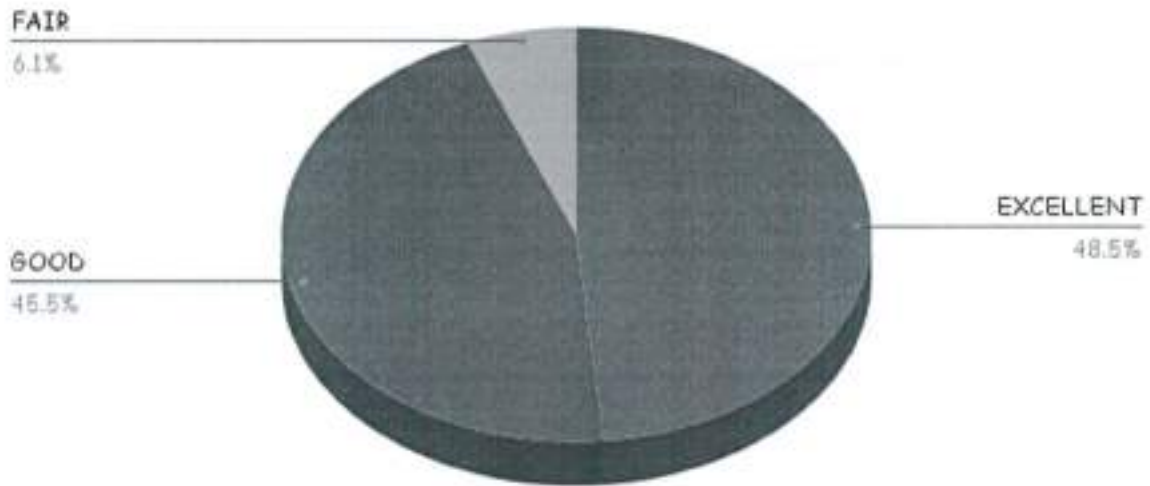

Dr. Rajashekar Patil
Patron


Dr. Ramesh A.M
CEO, KSTA

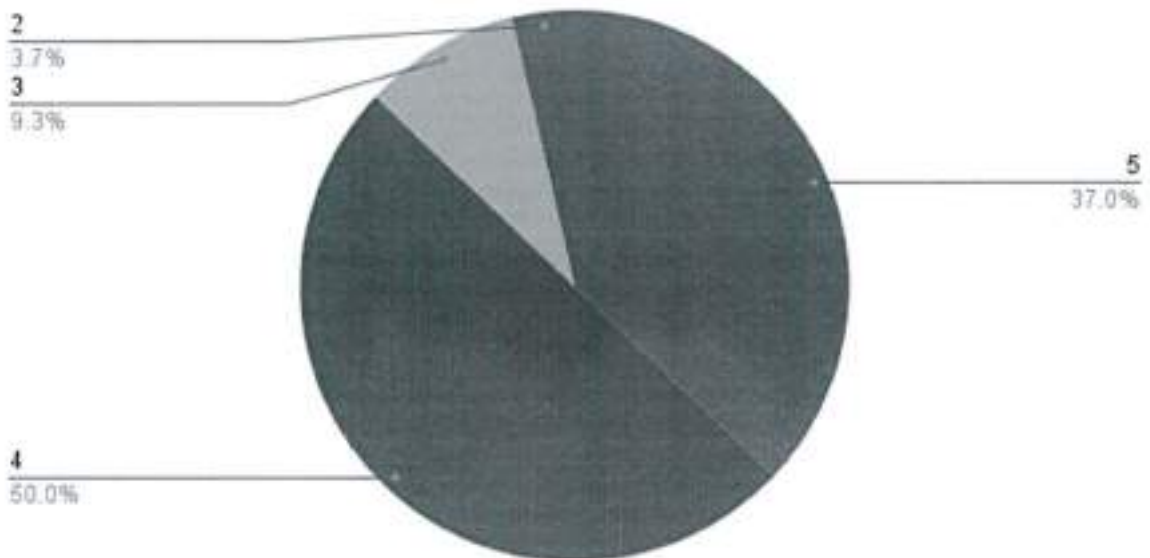
BENGALURU

FEED-BACK FORM RESPONSES

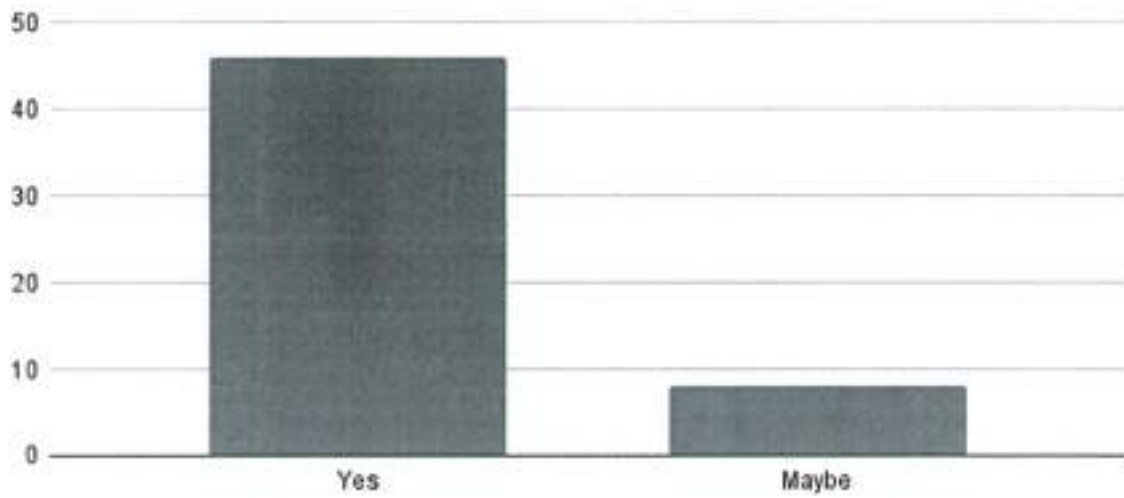
1. How was the Webinar



2. How would you rate the Presentation of the Resource Person?

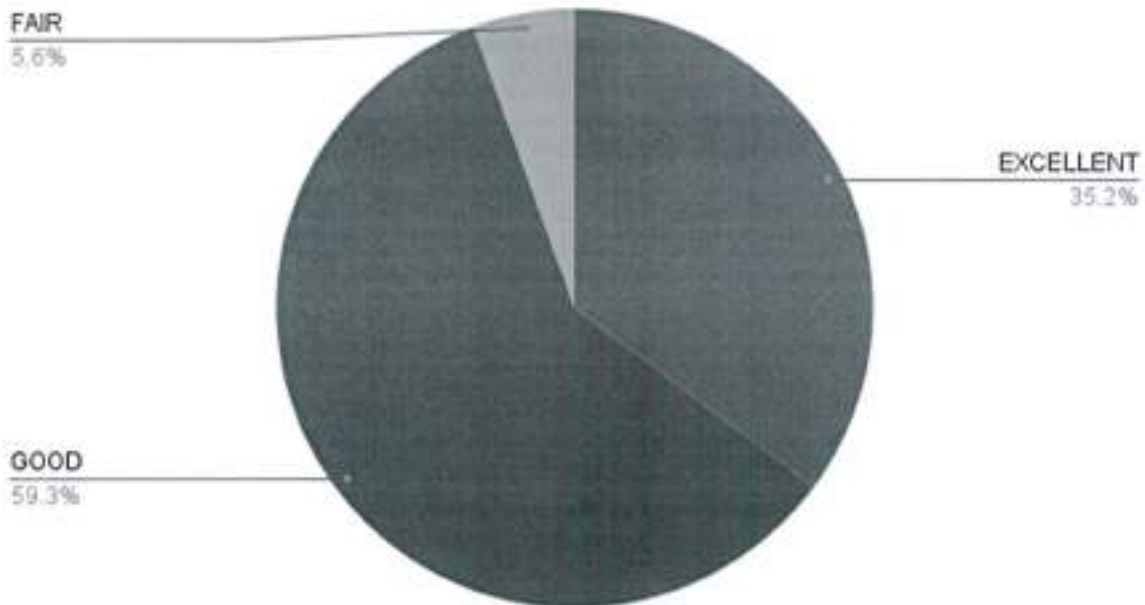


Count of 3. Would you like to attend such Webinars/FDP/Conferences in Future?

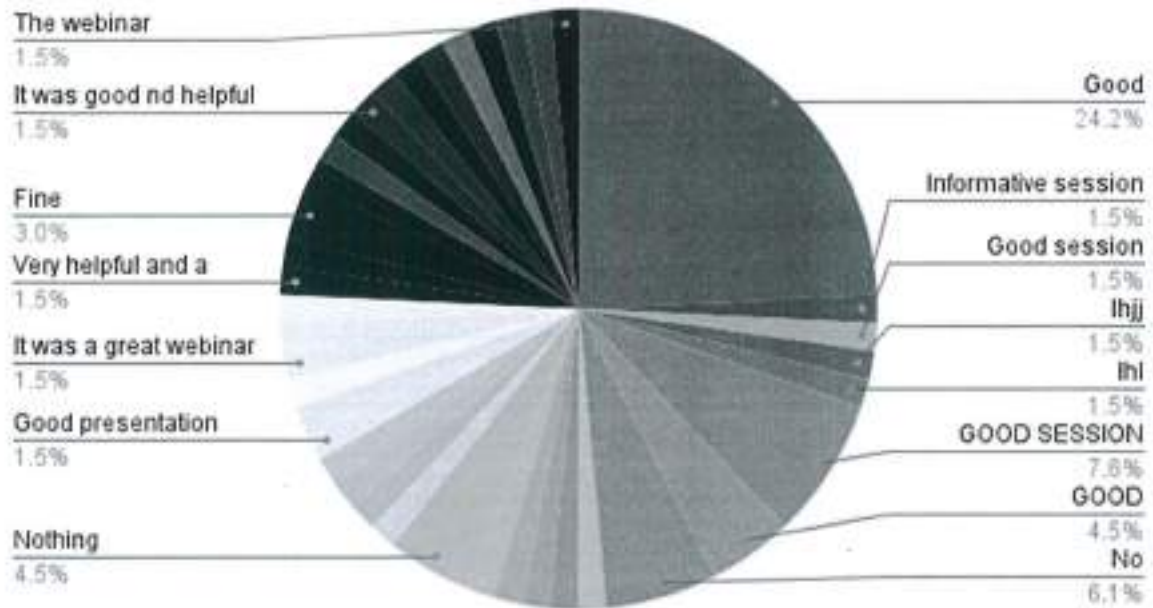


Count of 3. Would you like to attend such Webinars/FDP/Conferences in Future?

Count of 4. How do you rate Overall Webinar?



Count of 5.Feedback or Any other Suggestions?

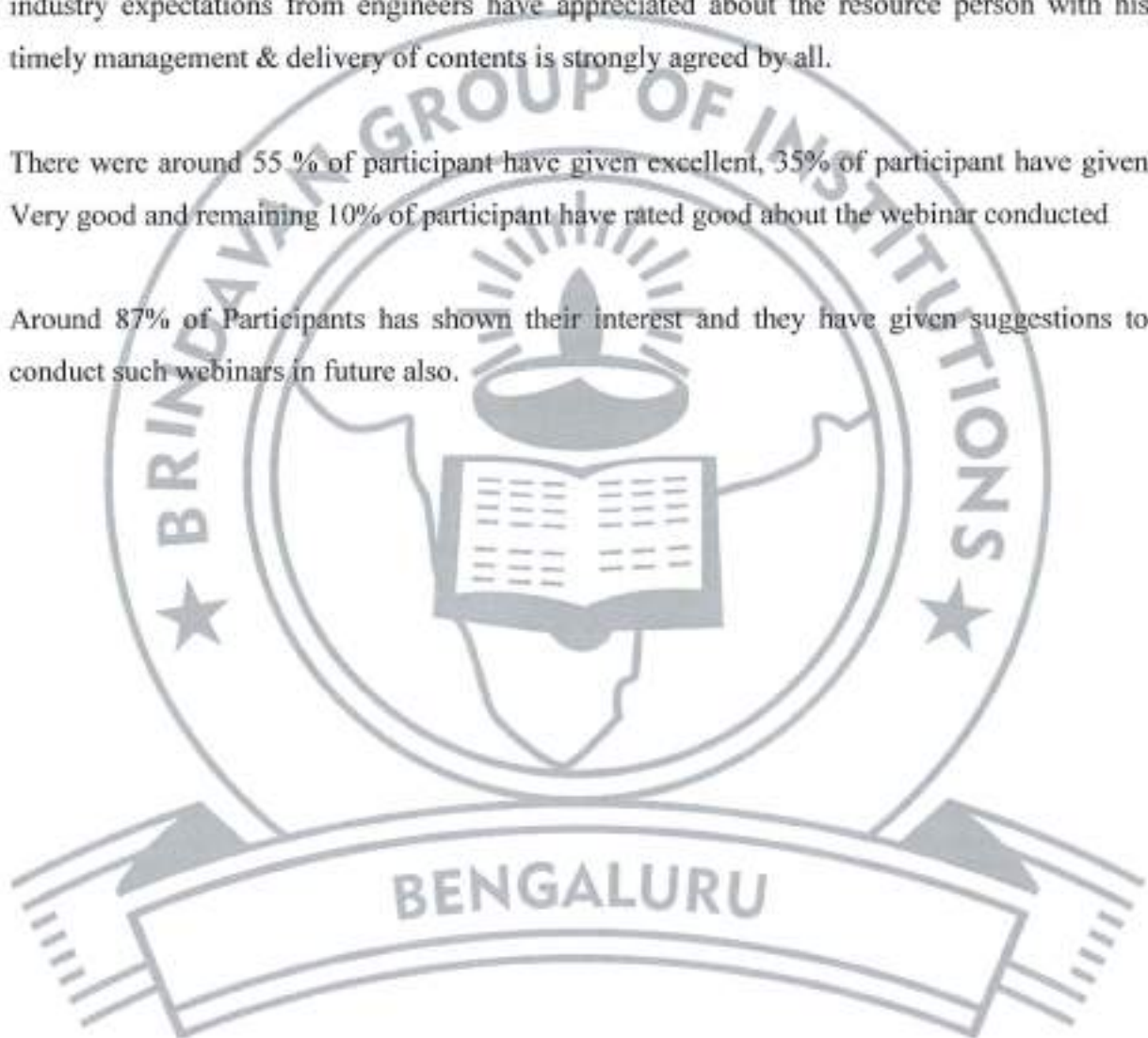


Conclusion

As per the feedback responses received from the participants, around 70% of the participants have attended this webinar on the topic “Machine Learning Algorithms Using Python” The industry expectations from engineers have appreciated about the resource person with his timely management & delivery of contents is strongly agreed by all.

There were around 55 % of participant have given excellent, 35% of participant have given Very good and remaining 10% of participant have rated good about the webinar conducted

Around 87% of Participants has shown their interest and they have given suggestions to conduct such webinars in future also.



Head of the Department
Department of CSE
Brindavan College of Engineering
Dwarkanagar, Bagalur Main Road
Yelahanka, Bangalore - 63.





Brindavan College of Engineering


Dwarakanagar, Bagalur Main Road, Yelahanka, Bengaluru, Karnataka 560063

Affiliated to VTU Belagavi, Approved by AICTE, New Delhi and Govt. of Karnataka

Accredited 'A' level by NAAC


1	Department/Class/Committee	Department of Computer Science & Engineering.
2	Title of the programme	Intellectual Property Rights and Awareness Programme
3	Date and Time	20/01/2022 and 10:00A.M
4	Type of the Programme: Cultural/Extra-Curricular/Cocurricular/Sports/NSS/NCC/Industry Interaction/Extension/Outreach/Capacity Building/Others	CO-Curricular Activity; Intellectual Property Rights and Awareness Programme
5	Main Co-Ordinator of the Programme	Prof.Meenakumari K S Dr.Shivamurthaiah M Assistant Professor-CSE
6	No.of Participants attended the Programme	127
7	Objectives of the Programme	Awareness Programme on Intellectual Property Rights (IPR) under the National Intellectual Property Awareness Mission (NIPAM) in Association with Office of the Controller General of Patents, Designs & Trade Marks.
8	Outcomes/Impact of the Programme	Students and Faculties got knowledge about patents and how to file in various categories.

1. Invitation




Brindavan College of Engineering

Dwarkaganur, Bugalur Main Road, Yelahanka, Bengaluru, Karnataka, India
Approved by AICTE, Recognized by Government & UGC, Affiliated to V.J.U




With the blessings of “Padma Shri” Dr. B.R. Shetty
Department of Computer Science and Engineering
Department of Information Science and Engineering
Organizes Webinar On
“Intellectual Property Rights Awareness Programme”

Date and Time:
20th January 2022
10:00 A.M. Onwards



Resource Persons:
Dr. Sharan Gowda
Assistant Controller of Patents and Designs
Intellectual Property Office,
Govt. of India, Chennai

Shri. Ramashish Paul
Examiner of Patents and Designs
Intellectual Property Office,
Govt. of India, Chennai



NIPAM
NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION

<https://chennai-patent.webex.com/j-philip?MTID=m4e0c64a97d778f5d270364706c7124d1>

Convenor:
Prof. Meena Kumari K.S.
Dr. Shivamurthiah M

Patron:
Dr. Rajashekar Patil
Principal, BCE

Co-ordinators:
Faculties
Department of CSE
Department of ISE

2. Program Schedule

1.	Assembling in Engineering block seminar hall	9:45 AM
2.	Welcome speech by Principal	10:00- 10:30 AM
3.	Talk by Dr.Sharan Gowda	10:30-11:30 AM
4.	Talk by Shri.Ramashish Paul	11:30-12:30 PM
5.	Discussions	12:30-1:00 PM
6.	Vote of thanks	1:00-1:10 PM

IPR Awareness

Awareness Programme on Intellectual Property Rights (IPR) under the National Intellectual Property Awareness Mission (NIPAM) in Association with Office of the Controller General of Patents, Designs & Trade Marks Department for Promotion of Industry and Internal Trade Ministry of Commerce and Industry, Government of India.

The definition of intellectual property rights is any and all rights associated with intangible assets owned by a person or company and protected against use without consent. Intangible assets refer to non-physical property, including right of ownership in intellectual property. Examples of intellectual property rights include:

- Patents
- Domain names
- Industrial design
- Confidential information
- Inventions
- Moral rights
- Database rights
- Works of authorship
- Service marks
- Logos
- Trademarks
- Design rights
- Business or trade names
- Commercial secrets
- Computer software

What Are the Types of Intellectual Property?

There are four main types of intellectual property rights, including patents, trademarks, copyrights, and trade secrets. Owners of intellectual property frequently use more than one of these types of intellectual property law to protect the same intangible assets. For instance, trademark law protects a product's name, whereas copyright law covers its tagline.

1. Patents

The U.S. Patent and Trademark Office grants property rights to original inventions, from processes to machines. Patent law protects inventions from use by others and gives exclusive rights to one or more inventors. Technology companies commonly use patents, as seen in the patent for the first computer to protect their investment in creating new and innovative products. The three types of patents consist of:

- **Design patents:** Protection for the aesthetics of a device or invention. Ornamental design patents include a product's shape (Coca-Cola bottle), fonts, or any other distinct visual traits.
- **Plant patents:** Safeguards for new varieties of plants. An example of a plant patent is pest-free versions of fruit trees. But inventors may also want a design patent if the tree has unique visual properties.
- **Utility patents:** Protection for a product that serves a practical purpose and is useful. IP examples include vehicle safety systems, software, and pharmaceuticals. This was the first, and is still the largest, area of patent law.

2. Trademarks

Trademarks protect logos, sounds, words, colors, or symbols used by a company to distinguish its service or product. Trademark examples include the Twitter logo, McDonald's golden arches, and the font used by Dunkin'.

Although patents protect one product, trademarks may cover a group of products. The Lanham Act, also called the Trademark Act of 1946, governs trademarks, infringement, and service marks.

3. Copyrights

Copyright law protects the rights of the original creator of original works of intellectual property. Unlike patents, copyrights must be tangible. For instance, you can't copyright an idea. But you can write down an original speech, poem, or song and get a copyright.

Once someone creates an original work of authorship (OWA), the author automatically owns the copyright. But, registering with the U.S. Copyright Office gives owners a head-start in the legal system.

4. Trade Secrets

Trade secrets are a company's intellectual property that isn't public, has economic value, and carries information. They may be a formula, recipe, or process used to gain a competitive advantage.

To qualify as a trade secret, companies must work to protect proprietary information actively. Once the information is public knowledge, then it's no longer protected under trade secrets laws. According to 18 USC § 1839(3), assets may be tangible or intangible, and a trade secret can involve information that's:

- Business
- Financial
- Technical
- Economic
- Scientific
- Engineering

Two well-known examples include the recipe for Coca-Cola and Google's search algorithm. Although a patent is public, trade secrets remain unavailable to anyone but the owner.

What Are Some Examples of Violations of Intellectual Property?

The significant violations of intellectual property consist of infringement, counterfeiting, and misappropriation of trade secrets. Violations of intellectual property include:

- Creating a logo or name meant to confuse buyers into thinking they're buying the original brand
- Recording video or music without authorization or copying copyrighted materials (yes, even on a photocopier, for private use)
- Copying another person's patent and marketing it as a new patent
- Manufacturing patented goods without a license to do so

Since intellectual property can be bought, sold, or leased out, it offers many protections equal to real property ownership. Likewise, similar remedies exist. A dispute may end with property confiscation, an order of monetary damages, or cease and desist orders.

What Does an Intellectual Property Lawyer Do?

Like many areas of law, intellectual property attorneys' responsibilities differ according to their niche. Lawyers may cover licensing, acquisitions, or creation. Some create and oversee strategies to protect intellectual property internationally and domestically. However, there are three main components of IP law: counseling, protection, and enforcement.

1. Client Counseling

Lawyers who counsel clients find the best way to guard intellectual property and help their clients license and use it. For example, executives enlist attorneys to research the availability of trademarks. If a similar mark already exists, lawyers help leaders determine whether to alter their design or drop it altogether.

In the field of patent counseling, attorneys with a technical background assess the client's patent to determine the possibility of patent infringement and its validity. Patent lawyers usually must have a background in science, including an undergraduate degree in a scientific field, to qualify.

2. Intellectual Property Protection

Lawyers involved in the protection of intellectual property complete the processes associated with securing the highest available rights. Doing so involves preparing and transmitting an application with the U.S. Patent and Trademark Office (PTO). Attorneys will also respond to issues or requests by the agency until the patent or trademark clears and is issued.

3. Enforcement of Intellectual Property Rights

Lawyers who enforce intellectual property rights do so by guarding the owner against infringement. Litigation against violators in federal court includes criminal prosecution and enforcement for intellectual property rights. International enforcement is much more complicated and can involve local politics in the country where the infringement occurred.

What Skills Help Intellectual Property Lawyers?

Law firms hire attorneys for work in the licensing, trademark, and copyright fields if they have a science or litigation background. There are rarely separate departments for each area at firms. However, patent attorneys may also complete copyright and trademark work related to their field of specialty. The most desired skills in intellectual property law include:

- Well-versed in business transactions
- Ability to work alongside other legal representatives
- Strong written and oral communication skills
- Negotiation capabilities
- An understanding of international and domestic considerations
- Lateral thinking skills
- Attention to detail

Does a Patent Attorney Require Different Skills?

Typically, firms look for patent lawyers with a technical undergraduate degree. Patent litigators don't have any special requirements, whereas patent prosecutors need to pass the U.S. Patent and Trademark Office's Patent Bar Exam.

Patent litigators oversee disputes, develop enforcement strategies, and defend companies accused of patent violations. Patent prosecutors establish patent rights by advising clients, drafting applications, and creating protection strategies.

However, patent prosecutors must fully understand how an invention works, differs from others, and is original, and argue these points. Lawyers in patent law do well with a bachelor's degree in engineering or science fields, such as:

- Physics
- Life sciences
- Material science
- Medical devices
- Electrical engineering
- Pharmaceutical and chemistry

Are Intellectual Property Lawyers In Demand?

Yes, IP attorneys are in demand across the United States. With new developments in science and technology, and the growth of the internet, IP lawyers are needed for creators, content protections and electronic rights. Although many types of technology firms hire at high rates, manufacturing and pharmaceutical corporations all require legal support. However, patent lawyers who specialize in certain areas can get higher pay and a wider variety of job offers. These fields include:

- Electrical engineering
- Computer science
- Biotech engineering
- Biochemistry
- Mechanical engineering

Intellectual property lawyers also enjoy a fair amount of work even during an economic downturn. IP has a high value to organizations as executives will protect their assets regardless of a slowdown or other financial disturbance. Since patent prosecution requires a greater knowledge level, these positions are in higher demand and tend to be financially lucrative.

How to Learn About Intellectual Property Law

Your first-year [law courses](#) introduce the basics of law required for each sector of intellectual property law. During your second or third year, you'll learn about business associations, which helps you understand future IP clients' organizational structures and needs. Most law schools, including St. Francis School of Law, provide elective courses teaching lawyering skills and offering practice exercises in intellectual property courses.

Intellectual Property I

Students focus on copyright and trademark law in this first introductory intellectual property law course at St. Francis School of Law, including legal rights, remedies, and infringement. Students learn about the specific rules and professional skills like completing copyright and trademark registrations. Class projects may include drafting:

- Appellate opinion on copyright infringement
- Legal memorandum on a possible copyright infringement
- Client letters discussing the loss of trademark rights or trademark priority
- A final analysis of federal trademark benefits, domain names, or cybersquatting

Intellectual Property II

The second intellectual property course builds upon the first class in the series, concentrating on IP infringement and patent law. Law professors introduce case studies and discuss industries to help students discover the intersection of patent and copyright laws. Lastly, professors teach the substantive rules relating to trademark law. Practical exercises may include:

- Defining the details a company must go over with exiting employees leaving for a competitor
- Completing a memorandum about the patentability of an enzyme and its manufacture
- Drafting client letters about rights and remedies under trade secret law
- Preparing for client meetings regarding a potential patent
- Writing a memorandum to general counsel about a misappropriation claim

Learn More about Intellectual Property Law

Explore the intellectual property section on state bar association websites or visit the American Intellectual Property Law Association for more intellectual property law information. You can also speak with advisors at law school to learn about the opportunities available to students wanting to specialize in intellectual law. Discover the possibilities available to you with an [online Juris Doctor \(JD\) de.gree](#) from the St. Francis School of Law.



Government of India
Ministry of Commerce and Industry
Department for Promotion of Industry and Internal Trade
Office of the Controller General of Patents, Designs and Trade Marks

CERTIFICATE

This is to certify that, **MR. PAVAN T H of BRINDAVAN COLLEGE OF ENGINEERING** has
successfully participated in IP Awareness/Training program under

NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION

on January 20, 2022

Azadi Ka
Amrit Mahotsav

Organized by
Intellectual Property Office, India

Date: February 02, 2022




(RAJENDRA RATNOO, IAS)
CONTROLLER GENERAL OF
PATENTS, DESIGNS & TRADE MARKS

Head of the Department
Department of CSE
Brindavan College of Engineering
Dwarkanagar, Bagalur Main Road
Yelahanka, Bangalore - 63.



