PARTICIPATION OF FACULTY IN FDP / WORKSHOP / CONFERENCES/ SEMINARS

No.	Name of the Faculty	Name of the Event	Organised by	Dates
1.	Jyoti Singh	one week FDP on "Recent development in green technology	G. B. Pant DSEU (Govt. of NCT of Delhi	31 st July – 04 th August, 2023
2.	Mohit Tiwari	01 week Online National Level Faculty Development Program on "Exploring the Educational Potential of CHATGPT"	Career Development Cell, Gokul Global University, Siddhpur, Gujarat	24 th – 30 th July, 2023
3.0	Praveen Kumar Dwivedi Manjeet Ranjana Mishra	Attended one week FDP on Recent Advancements and Challenges in Electrical Technology	Galgotia University, Noida, UP	24 th – 28 th July, 2023
4.	Mohit Tiwari	05 Days Faculty Development Programme on "Research Methodology and Data Analytical Tools"	School of Management and Liberal Studies, The NorthCap University, Gurugram	24 th – 28 th July, 2023
5	Mohit Tiwari	07 Days National Level EDP on Advanced Teaching, Learning and Research Pedagogy in HEI's	IOT Academy in association with Bharati Vidyapeeth Deemed to be University, New Law College, Law Artigence Cell, Pune.	23 rd – 29 th July, 2023
6.	Mohit Tiwari	01 Week Faculty Development Program (Hybrid Mode) on "Unlocking Innovation: Exploring Research, Innovation and Patents (UIERIP-2023)"	Department of Mechanical Engineering, SVERI's College of Engineering, Pandharpur in collaboration with Institution's Innovation Council	17 th – 22 nd July, 2023
7.	Pidugu Trisandhya Rupali Pandey Nishi Deepa Palo	01 week online Faculty development Program on Statistical and Computational Methods for Decision Making	Department of Mathematics, Jaypee Institute of Information Technology, Noida	17 th - 22 nd July, 2023
8.	Mohit Tiwari	07 Days International Online Management Development Program on Basic Linux System Administration using ChatGPT	Marian College Kuttikkanam (Autonomous) in association with Red Hat, IPSE solutions limited, and Valin - UK, USA & Canada	13 th – 21 st July, 2023
9.	Mohit Tiwari	O2 Weeks National Online Hands On Training on Complete R Programming for Absolute Beginners & Learners:	HI Learn EDUTECH Institute, MSME, GOI Registered An ISO Certified Institute Bijapur / Vijaypur, Karnataka	11 th -25 th July, 2023
10.	Mohit Tiwari	05 Days International Virtual Workshop on "Research Skills"	International Research Academy of Science and Art-IRASA, Belgrade, Serbia & IRASA Branch India in Collaboration with Cape Comorin Trust Andia &	11 th – 15 th July, 2023

			Lavender Literary Club, India	
112	Surjeet Balhara	Machine Learning and Artificial Intelligence	IIT, Roorkee	10 th July-18 th August, 2023
12.	Mohit Tiwari	01 Week Faculty Development Programme on the topic "UPSKILL YOUR RESOURCES" (Under UGC Autonomy Grant)	Department of Business Administration (SF), Ayya Nadar Janaki Ammal College, Sivakasi	07 th – 13 th July, 2023
13.	Mohit Tiwari	1st One-week workshop on "Research Oriented Technical Writing (ROTW-2023)"	Department of Electrical Engineering, NIT Jamshedpur, Jharkhand, India	04 th – 08 th July, 2023
14.	Nitu Sehrawat	02 Weeks refresher course in Chemistry	Ramanujan College, University of Delhi	30 th June – 14 th July, 2023
15.	Mohit Tiwari	07 Days National Level Virtual FDP on "Personality Development for Teachers in HEI's"	IOT Academy MSME Registration No: UDYAM-TN-03- 01015425 Regt, No.: FR/CBE /709/2021 Coimbatore, Tamilnadu, India	26 th June – 04 th July, 2023
16.	Ashima Airan	International Conference on IOT, Communication and Automation Technology	BIT, Gorakhpur, UP	23 rd – 24 th June, 2023
17,	Surjeet Balhara	Basics of Data science and Machine Learning	ITM University, Gwalior	21 st – 26 th June, 2023
18.	Mohit Tiwari	International Virtual Short Term Program on Teaching, Learning and Research	Mindanao State University-Sulu, Philippines, Office of the Internationalization in Collaboration with Cape Comorin Trust, India	20 th – 24 th June, 2023
19.	Shikha	Advanced semiconducting material and devices	VIT, Chennai	18 th - 20 th June, 2023
20.	Monica Bhutani Priyanka Gupta	Multi attribute Fuzzy time series based on adaptive expectation	VIT, Chennai	18 th - 20 th June, 2023
21.	Mohit Tiwari	NeW IPR 2023 e-Workshop	Innovative Technology Enabling Centre (InTEC), CSIR-IMMT, Bhubaneswar	12 th – 17 th June, 2023
22.	Monica Bhutani Priyanka Gupta Shikha	Exploring the scope of engineering mathematics in control system and signal processing	VIT, Chennai	11 th - 16 th June, 2023
23.	Jolly Parikh Yugnanda Mohit Tiwari Ashu Soni	One week FDP on "How to write Research/Project proposals for government institutions and funding Agencies"	BVMIR, New Delhi	10 th – 15 th June, 2023
24.	Ritambhara Katoch	Energy Efficient and Decarbonisation Technologies	NITTTR ,Chandigarh (Online)	05 th – 09 th June, 2023
25.	Nitu Sehrawat Vandita Sharma	One Week FDP on 'Education 4.0'	Ramanujan College, University of Delhi	01 st – 07 th June, 2023
26.	Mohit Tiwari	08 Days Virtual Faculty Development Program on	Primax Foundation, Bengaluru, Karmataka	28 th May – 04 th June, 2023 INCIPAL

		"Sustainable Teaching Practices in Academic 4.0"		
27.	Amreeta Preetam	One week Online FDP on "Open Source Tools for Teaching and Research"	Ramanujan College, University of Delhi	22 nd – 28 th May 2023
28.	Bhawanand Jha	Application of applied mathematics in engineering field	VIT, Chennai	20 th – 24 th May, 2023
29.	Amit Sharma	06 th National Conference on Advanced Materials and Radiation Physics (AMRP-2023)	Department of Physics, Sant Longowal Institute of Engineering and Technology, Longowal	18 th - 19 th May, 2023
30.	Ritika Chauhan	One week Online FDP on "Academic Writing for Research"	Ramanujan College, University of Delhi	15 th – 21 st May, 2023
31.	Preeti Nagrath	FDP on Education 5.0	MGR Educational Institute and Research Institute, Chennai.	15 th – 19 th May. 2023
32.	Nishi Deepa Palo	Attended webinar on National Intellectual property awareness mission	Intellectual property office, Government of India	12 th May, 2023
33.	Mohit Tiwari	10 Days National Level Faculty Refresher Program	Innovation Online Training Academy (IOTA), MSME Reg. No: UDYAM-TN-03- 01015425 Regt, No.: FR/CBE/709/2021 Coimbatore, Tamilnadu, India	08 th – 18 th May, 2023
34.	Mohit Tiwari	06 Days Online National Level Faculty Development Program on "Outcome Based Education: A Step Towards Excellence in Education"	Career Development Cell (CDC), Gokul Global University, Siddhpur, Gujarat	08 th – 13 th May, 2023
35.	Jolly Parikh	One Week International FDP in online mode on "AI Empowered Futuristic Computing Paradigm"	Graphic Era (Deemed to be) University, CSE Department	08 th – 12 th May, 2023
36.	Ranjana Mishra	Paper presented in ICAMET- 2023	NSUT, Delhi	04 th – 06 th May, 2023
37.	Mohit Tiwari	10 Days Workshop On "Capacity Building Program In Cyber Security & Its Investigation (Cyber Security/ Information Security/Network Security)"	Research Foundation of India & RFI-CARE	01 st – 10 th May, 2023
38.	Mahesh Kumar	One Week Online FDP on "Recent Advancement in Artificial Intelligence & Cloud Computing"	Tecnia Institute of Advanced Studies, Delhi	26 th April – 02 nd May, 2023
39.	Saket Gupta	5 days Faculty Development Programme on "Developing Potential-Emerging Technologies of Computer Science"	Sri Balaji College of Engineering and Technology, Jaipur	25 th – 29 th April, 2023
40,	Kirti Gupta Jitender Kumar	Nascent Technologies in signal processing, communication and VLSI	NIT, Delhi	24 th – 29 th April, 2023
41.	Shikha	Deep laerning and artifical intelligence based digital image	VIT, Chennai	24 th – 26 th April, 2023

42.	Saket Gupta	Developing Potential-Emerging Technologies of Computer Science"	Sri Balaji College of Engineering and Technology, Jaipur	25 th – 29 th April 2023
43.	Kirti gupta	Nascent Technologies in signal processing communication and VLSI (NTSPVC-2023)	Dept. of ECE NIT, Delhi	24 th – 29 th April 2023
44.	Ashu Soni	Presented a paper entitled "Harmoney Search based Fractional-order Chebyshev Filter"	2nd International Conference WREC-23 organised by Department of Electronics and Communication Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar, Punjab, INDIA	21 st – 23 rd April 2023
45.	Deepak Gangwar Neera Agarwal	Machine Learning and Applications	NIT, Kurukshetra	22 nd - 26 th April, 2023
46.	Shikha	Design and Fabrication Techniques of an Antenna: TV & Radio to sensors"	School of Electronics Engineering at VIT-AP University, Amaravati, on 8th April 2023	08 th April, 2023
47.	Mohit Tiwari	"International Advanced Faculty Development Program on Effective Manuscript Drafting and Application of Research Software"	Eudoxia Research Centre and Eudoxia Research University - USA Online	03 rd -10 th April, 2023
48.	Shikha	Role of communication in IOT/IOMT	VIT, Chennai	03 rd - 07 th April, 2023
49.	Amrita Ticku	10 Days Workshop on "Artificial Intelligence, Machine Learning, and Deep Learning"	National Institute of Technology Warangal	31 st March – 09 th April, 2023
50.	Mohit Tiwari	Seven Days National Level Faculty Development Program (online mode) entitled "Policy Initiatives And Quality Enhancement In Higher Education"	A.C.T. Academy, Tamil Nadu in Association with Academic & Research Conglomerate (ARGON) and Academic & Research Activity Group (ARAG) Online	27 th March – 02 rd April, 2023
51,	Ashu Soni Ashima Airan	One Week International Short Term Training Program on "Mathematical Modeling and Computational Software"	Hindustan Institute of Technology, Coimbatore, Tamilnadu	27 th March – 01 st April, 2023
52.	Mohit Tiwari	3 Weeks National Level Workshop on "Research Methodology"	ESSGEE Digiskills Online	26 th March – 16 th April, 2023
53	Shikha	The Key enablers for Future communications	School of Electronics Engineering at VIT-AP University, Amaravati	26 th – 28 th March, 2023
54.	Sangeeta Gupta Apoorva Aggarwal Arati Kane	Process Modeling, Simulation, Control, and Optimization (PMSCO-2023)	Dr. B R Ambedkar National Institute of Technology Jalandhar Punjab	23 rd – 27 th March, 2023

55.	Shikha	Application of Labview and simulink in control system	School of Electronics Engineering at VIT-AP University, Amaravati, on 8th April 2023	18th – 19th March, 2023
56.	Mohit Tiwari	Participated in the 10 Days FDP/ Training Program On "A STEP- BY-STEP GUIDE TO WRITE A GOOD RESEARCH PAPER"	Research Foundation of India & RFI-CARE Online	18 th – 27 th March, 2023
57.	Sudha K Sandeep Banerjee	One week hybrid mode Faculty Development Program on "Application of Remote Sensing and GIS in Urban Planning,"	Jointly organized by NIT, Patna and ITP, India	15th – 19th March, 2023
58.	Ashima Airan Ashu Soni	Faculty Development Programme on "AI and Machine Learning for Healthcare Engineering"	Department of Computer Science & Engineering, New Horizon College of Engineering, VTU.	15 th – 17 th March, 2023
59.	Ajay Dureja	One day FDP on Insights on National Education Policy 2020	Niranjana Majitha College Of Commerce, Kandivali (West), Mumbai	15th March, 2023
60.	Rajiv Kumar Nehra	Design of High-frequency Antennas for Real-time Applications (DHARA-2023)	GMR Institute of Technology, Rajam and VR Siddhartha Engineering College, Vijayawada, Andhra Pradesh.	14 th - 18 th March, 2023.
61.	Ajay Dureja	One Week FDP on "Recent Trained in Cognitive System and Application:	VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, Telangana.	13th – 18th March, 2023
62.	Saurabh Singh	Attended and Presented paper on the topic of Investigation of Dielectric and Electrical Behaviour of Y2Ti2O7 Pyrochlore in 2nd International Conference on "Advanced Functional Materials & Devices" (AFMD-2023)	IQAC & Department of Physics, ARSD College (Online)	13th – 15th March, 2023
63.	Pidugu Trisandhya	2nd International Conference on Mathematical in Space and Applied Sciences (ICMSA-2023)	Department of Mathematics, NSCBM Govt. College, Hamirpur, Himachal Pradesh, India	13th – 14th March, 2023
64.	Mohit Tiwari	One Week National Level Workshop on "Research Methodology and Ethics through online"	Online	12th – 18th March, 2023
65.	Mihika Mahendra	One week IEEE sponsored FDP on "Recent Trends in VLSI Design and its Research Issues in Induastry Compliance	G H Raisoni College of Engineering, Nagpur	06th – 11th March, 2023
66.	Shikha	Design and Fabrication of VLSI and Nanomaterial based sensors	VIT, Chennai	04th – 07th March, 2023
67,	Bharat Singh	One week FDP on "Raspberry PI and its Interfacing"	Jointly organized by SKIT Jaipur and NITTTR Chandigarh	27th February – 03rd March, 2023

68.	Surjeet Balhara	Cyber Security Challenges and emerging trends	ITM University, Gwalior	24 th – 25 th Februa 2023
69.	Shikha Saket Gupta Priyanka Gupta Jyoti Gupta Shikha	Developing Research Skills	Sri Balaji College of Engineering , Jaipur	23 rd – 25 th February, 2023
70.	Neetu Singh Manish Talwar	One Day Workshop on "Application of Renewable Energy Systems in EV Charging Infrastructure"	EDUSAT, EED, DTU	22nd February, 2023
71.	Yogita Arora Saji M. Antony Monica Gupta	ATAL FDP on "AT and Data Analytics for Healthcare"	IGDTUW, Delhi	20th February – 03rd March, 2023
72.	Jitender Kumar Avinash	Antenna and wireless technologies	NITTTR, Chandigarh	20 th - 24 th Februar 2023
73.	Ritambhara Katoch	Reliability Studies for Engineering Applications	NIT Delhi (Offline)	13 th – 24 th February, 2023
74.	Neeraj Kumar	FDP on "Reliability Studies for Engineering Applications" at NIT Delhi	AICTE Training And Learning (ATAL) Academy	13 th – 24 th February, 2023
75.	Yogita Arora Saji M Antony Priyanka Gupta Jyoti Gupta	Online Education:An Evolving Paradigm	AIU-GGSIPU-AADC (Association of Indian Universities-Guru Gobind Singh Indraprastha University-Academic and Administrative Development Centre)	13th – 17th February, 2023
76.	Jolly Parikh	FDP on "AI, ML and interdisciplinary approach for NLP"	RIT Roorkee Online	09 th – 14 th February, 2023
77.	Manjeet	Faculty Development Programme on "Modern Manufacturing in Industry 4.0 (MMI-2023)	NIT Delhi	07 th – 12 th February, 2023
78.	Praveen Kumar Dwivedi Saurabh Kr. Agrawal Ranjana Mishra	Participated in Faculty Development Programme on "Modern Manufacturing in Industry 4.0 (MMI-2023)	NIT Delhi	07th - 12th February, 2023
79.	Mohit Tiwari	7 Days National "FDP on E- Content: Design & Application"	Dept. of Management, Kristu Jayanti College (Autonomous), Bengaluru Online	06 th – 13 th February, 2023
80.	Mohit Tiwari	Microsoft, SAP & AICTE ATAL led Faculty Development Program on "Cloud Computing" under TechSaksham Program	Online	30 th January – 03 rd February, 2023
81.	Jolly Parikh	01 week FDP on "AI, ML and interdisciplinary approach for NLP"	RIT, Roorkee	09 th – 14 th February, 2023
82.	Kaushal Sharma	Presented paper Contribution of Kamala Das to Indian English Literature	ICSSR	03 rd February, 202.
83.	Mohit Tiwari	Microsoft, SAP & AICTE ATAL led Faculty Development Program	Microsoft, SAP & AICTE ATAL	20th January 103th PREMICH P20123 arati Vidyapeeth's

		on "Cloud Computing" under TechSaksham Program		
84.	Ritambhara Katoch	AICTE Recognized FDP on "Hands on Experiences on Arduino"	NITTTR, Chandigarh	30 th January – 03 February, 2023
85.	Preeti Nagrath	Faculty Development Program on "Artificial Intelligence" under TechSaksham Program	Microsoft India and SAP India led	30 th January – 03 February, 2023
86.	Jolly Parikh Yugnanda	07 days STC on "MOOC Development and Delivery Techniques"	UGC HRDC Ranchi University, Ranchi	28 th January – 03 February, 2023
87.	Mohit Tiwari	Faculty Development Program, conducted by Sanskrithi School of Business, sponsored by AIMS, New Delhi	Sanskrithi School of Business, TN	23 rd – 27 th Januar 2023
88.	Mohit Tiwari	NPTEL E-Awareness Workshop	IIT Madras	20 th January, 202
89.,	Mohit Tiwari	Training on "Computer Hardware & Networking"	MSME-TDC, EFC-New Delhi, MSME-Tech. Development Centre (PPDC), Ministry of Micro, Small & Medium Enterprises, GOI Society Online	16 th January – 15 February, 2023
90.	Mohit Tiwari	Two Weeks Online National Level Faculty Development Program On "Deep Learning"	Department of Information Technology of Army Institute of Technology in association with IEEE and CSI Branch	09 th – 20 th Januar 2023
91.	Gaurav Mitra	Innovative VLSI Physical Design Using Innovus	SIMATS School of Engineering Chennai	09 th – 13 th January 2023
92.	Payal Malik Nisha Malhotra	One Week Online FDP on "Data Intelligence & Applications (DIA - 2023)	JIIT, Noida	07 th - 14 th Januar 2023
93.	Mohit Tiwari	96 hrs. Training on Computer Hardware & Networking	MSME-TDC, EFC-New Delhi, MSME-Technology DEVELOPMENT CENTRE (PPDC), Ministry of Micro, small and Medium Enterprises, Government of India Society	16 th January – 05 th February, 2023
94.	Anil Kumar	One Week (Online) International Faculty Development Programme on "Modern scientific technologies – Ways to enhance research skills"	Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi in collaboration with & K.R. Mangalam University, Gurugram & Motilal Nehru College, University of Delhi	26 th – 31 st December, 2022
95.	Mohit Tiwari	01 Week Faculty Development Programme on "Cloud Computing	Computer Science & Engineering	16 th – 20 th December, 2022.

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		and Its Applications: Opportunities and Challenges"	Department, Dr B R Ambedkar National Institute of Technology Jalandhar	
96.	Mohit Tiwari	Association of Indian Universities and AMET University (Academic and Administrative Development Centre) Faculty Development Programme in Design and Development of Industry led Curriculum in Technological Era, successfully completed with A+Grade	Association of Indian Universities and AMET University	14 th – 22 nd December, 2022
97.	Ranjana Mishra	Paper presented at International conclave on Materials, Energy, and Climate	IGDTUW Delhi	12 th – 14 th December, 2022
98.	Mohit Tiwari	10 Days Faculty Development Programme on "Innovative Pedagogies"	Ashoka School of Business (ASB), Hyderabad	05 th 14 th December 2022
99.	Kaushal Sharma	UK International Seminar on the topic Future of Teaching Learning	Ministry of Education in collaboration with DU	29 th November, 2022
100.	Neetu Singh	5 Days FDP on "Insight into AI and ML for Image Processing Techniques"	Manav Rachna University, Faridabad	28 th November – 02 nd December, 2022
101.	Rachna Narula	05 Days STC on "Insights into AI And ML for image processing Techniques"	CCE, NIT WARANGAL	28 th November – 02 nd December, 2022
102.	Ritambhara Katoch	IEEE Power India International Conference	NIT, Delhi	25th – 27th November, 2022
103.	Mohit Tiwari	Faculty Development Programme on "Exploring Dynamics of National Education Policy 2020 with reference to naac perspectives"	Sage University Indore- Bhopal, Christian Eminent College- Indore, Research Foundation of India & RFI-CARE	24 th – 30 th November, 2022
104.	Mohit Tiwari	Participated in National Faculty Development Program on Qualitative and Quantitative Analysis conducted by JVA edutech	JVA edutech	21 st – 29 th November, 2022
105.	Sumit Chawla	Presented a paper entitled "Integrated MCDM model for prioritization of new electric vehicle selection".	International Conference on Advancement in Manufacturing Engineering Organized by Department of Mechanical Engineering (ICAME-2022)	12 th – 13 th November, 2022
106.	Kaushal Sharma	One week Seminar on "Communication Creative Writing and Personality Development"	Ministry of Education in collaboration with DU	27 th October to 03 th November, 2022
107.	Arati Kane Mihika Mahendra	NAAC Sponsored two days workshop on "Role of IQAC in Quality Enhancement and Sustainability"	Tulsiramji Gaikwad- Patil College of Engineering and Tech	14 th – 15 th October 2022
108.	Mohit Tiwari	One Week Online Faculty Development Programme on "IoT	Department of Information Technology, Dr B R	04 th = 08 th October, 7022 INCIPAL i Vidyapeeth's

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A-4, Paschim Vihar,
New Delhi-63

		Induced Artificial Intelligence for Emerging Computing Paradigms"	Ambedkar National Institute of Technology, Jalandhar	
109.		IEEE Global Conference on Computing, Power and Communication Technologies	National Habitat Centre	23rd - 25th September, 2022
110.	Arun Kumar Dubey Arvind Rehalia Achin Jain	5 Days Online FDP on "Research Methodology and Tools"	ABES Engineering College, Ghaziabad	22 nd – 26 th August 2022
Ш	Sandeep Banerjee Bharat Singh Vijay Kumar	One week online FFP on "AI and ML Applications in Electrical & Electronics Engineering"	Jointly organized by SIET, Prayagraj JKIAPT, Prayagraj and IET, Ayodhya	20 th – 25 th August 2022
112.	Ruchi Sharma	Practical Aspects of ICT Tools & Online teaching in current scenario	Research Foundation of India-RFI Care & Arena Animation	19 th – 25 th August. 2022
113.	Kaushal Sharma	7 days FDP on "Human Values and Ethic"	AICTE	08 th to 15 th August 2022
114.	Kaushal Sharma	National Intellectual Property Awareness Mission	National IP Awareness Mission	06th August 2022
115.	Mohit Tiwari	IP Awareness/Training under The NIPAM program implemented by Intellectual Property Office, the Office of Controller General of Patents, Designs and Trade Marks (CGPDTM), Ministry of Commerce and Industry	Online	05 th August, 2022
116.	Jolly Parikh	Concalve on Keysight Technologies 5G Technology Conclave India 2022	Gurgaon	03 rd August, 2022
117.	Kaushal Sharma	7 days FDP on 'Research Methodology'	REVA University, Bangalore	01st to 08th August 2022
118.	Jolly Parikh	Attended 5 day workshop on Designing and Modelling of IoT, AI, ML systems	AICTE, ATAL academy, Arm Education and ST Micro Electronics	01 st – 05 th August, 2022
119.	Ankita Anand Apoorva Aggarwal	Advanced Research Trends in Signal and Image Processing	Jaypee Institute of Information Technology, Noida	28 th July – 03 ^{td} August, 2022

BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING,

Doc. No.: BV/FRADM/035

Issue No.: 02

Date of Issue: Ist Jan. 2011

ON DUTY LEAVE FORM

It is requested	that		
I (Name)			
	TAMBHRA KATO	CH	
	ASSISTANT PROFESSOR		
0	granted Duty leave on th		e mentioned below =
Dates	Nature of Work	Venue of Work	Supporting Document*
30-1-2023	short term course	NITTTR	
10	at NITTTR	Chandigash	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
4-2-2023	Short term course at NITTTR		
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175 2	Name	Olive	Signature
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(iii) _			
(iv) _			
(b) I h	ave on teaching and othe	er load on the above da	ates
(Fil	ll (a) or (b) above which	ever is relevant.)	
_	(1012)		Duraloch.
Date :	6/2/23	_ Signature :	6hroo
Note: T	his application should be	got sanctioned before	e availing Duty Leave.
recomm	TO BE FILLED BY H by Leave from 30/11/202 ended. 6/2/23	3 to <u>4-2-2013</u> rec	commended / not
화가는 그런 그 가까지 않는 생각하다.	[20] 하나는 뭐 없어 없었네. 얼마를 가게 꾸는 일하셨다고 하다.		ensure that teaching and
other loa	ids have been properly a	rranged).	
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Yanga Yanga	ŭ.	4.4	New Delhi-63

The Principal
Brankividy apeeth College of Engineering
A-4, - Paschim Vikas
New Ochi

Bubject! - Permission for STC conducted of NITHTR Chardigath.

It is to inform you that I want to attend a 5TC. based on hands on experiences on Asduino in NITTTR Chandigash starting from 30.01.2023 - 3.02.2023. Kindly allow one to attend the same on OD basi's till 4.02.2023. O shall be very thankful to you.

your sincerely

Ritembling Katoch

J. (ICE)

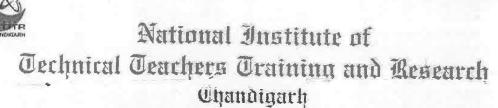
toemarded to Principal Sir.

Acon

Dr. Aradi Kane

PRINCIPAL

Certificate No: 1298/23



MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

Certificate

This is to certify that

RITAMBHRA KATOCH

BHARATI VIDYAPEETH COLLEGE OF ENGINEERING, NEW DELHI DELHI

Participated in the AICTE Recognized Faculty Development Programme

Hands on Experiences on Arduino

Conducted by

Electrical Engineering Department

from

30/01/2023 to 03/02/2023 (One Week)

NITTTR, Chandigarh

PRINCIPAL Bharati Vidyapeeth's College of Engineering A-4, Paschim Vihar,

Coordinator

Head of Department

. Director

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BHARATI-VIDYAPEETH'S COLLEGE OF ENGINEERING, NEW DELHI

Doc. No.: BV/FRADM/035

Issue No.: 02
Date of Issue: Ist Jan. 2011

ON DUTY LEAVE FORM

It	is requested that			
	(Name)		· ×	
N	ameDEEP	AK GANGIN	AR:	
D	esignation Pro	efusion.	Deptt. FCE	
			he dates for the purpos	
- 1	Dates Na	ture of Work	Venue of Work	Supporting Document*
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26	4-04-2023 F +0 5-04-2023		4.	eestificate will
	(a) My teach	ing and other dutic	es on the above dates wi	ill be performed by:
	m Mass	Name Join obh Rane	N-	Signature
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		Abhishik Gagi	reja Typ	
	(iii)			
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	(b) I have on	teaching and othe	r load on the above dat	es
	(Fill (a) o	r (b) above whiche	ver is relevant.)	
	Date : _2/-0	4-20-13.	_ Signature : De	Lak Gamgows.
	Hote: This app	mication should be	got sanetioned before	availing Duty Leave.
	Duty Leav	ve from 34-04-40-	EAD OF THE DEPART 3 to 26 - 04 - 2023 reco	mmended / not
	(Note: While r	ecommending dut	y leave HOD should er	sure that teaching and
	other loads hav	e been properly a	rranged)	isure that teaching and
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26-04-2023.

Licture (11:00/2:00)

Mr. Abhishik Gagarja M

PRINCIPAL



Regarding Participation Certificate for a Five-Day Short-Term Course on "Machine Learning and Applications (MLA-2023)"

1 message

V. G. Durgarao Rayudu <venu.rayudu@nilkkr.ac.in>

Thu, Apr 27, 2023 at 3:23 PM

To: "Dr. J. S. Lather" <jslather@nitkkr.ac.in>, "Dr. Rajesh Kumar" <rajeshmahindru23@nitkkr.ac.in>

Cc: "Prof. Saurabh Chanana" <saurabh@nitkkr.ac.in>, "Dr. Yash Pat" <yashpal@nitkkr.ac.in>, "Prof. Anil Kumar Dahiya" <anildau@yahoo.co.in>

Bcc: er.deepakgangwar@gmail.com

Dear MLA-2023 Participants

This is reference to the query being made regarding availability of STC Participation Certificates. It is hereby certified that you have attended the Five-Day Short-Term Course on "Machine Learning and Applications (MLA-2023)" organized by the Department of Electrical Engineering, NIT Kurukshetra from 22nd April 2023 to 26th April 2023. We are in process of printing / proofing the participation certificates and expect to send them by the next weekend. You may use this email as a certificate of participation in MLA-2023 till you receive formal participation certificates. We are confident that you have received significant value addition from the course and you will hand over the same to your colleagues and students. Wish you all the best,

cc: Other Course Coordinators, Convenors for update, please. Best regards

Dr. V. G. Durgarao Rayudu Coordinator, MLA-2023

PRINCIPAL

Bharati Vidyapeeth's College of Engineering A-4, Paschim Vihar,

New Delhi-63



DIRECTOR NATIONAL INSTITUTE OF TECHNOLOGY, KURUKSHE

NIT CAMPUS, KURUKSHETRA, , KURUKSHETRA-136119 Date: 07-Apr-2023

SBCollect Reference

Number:

DUK7768485

MLA-2023

₹3000

NAME:

DEEPAK GANGWAR

FATHER NAME:

GHANENDRA VEER

DATE OF BIRTH:

30/09/1985

MOBILE NO:

9718508870

E mall:

ER.DEEPAKGANGWAR@GMAIL.COM

CATEGORY:

FACULTY

PARTICIPATION:

OFFLINE

STUDENT/RESEARCH SCHOLAR:

FACULTY :

3000

Industry/ R and D org.:

Bharati Vidyapeeth's College of Engineering A-4, Paschim Vihar,

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Transaction charge :

Total Amount (In Figures)

Rupees Three Thousand Only

Notification 2:

BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, NEW DELHI

Doc. No.: BV/FRADM/035

Issue No.: 02

Date of Issue: Ist Jan. 2011

ON DUTY LEAVE FORM

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Centre for Human Values and Ethics Guru Gobind Singh Indraprastha University, Delhi

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Universal Human Values (Introductory)

4th May to 6th May, 2023 (in Physical mode)



Registration on AICTE Portal can be made using following link/QR code https://fdp-si.aicte-india.org/register1.php?detail1=390&detail2=north-west *Total number of seats are 60 to be allowed on a first cum first serve basis



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Bharati Vidyapeeth's
College of Engineering
4 Paschim Vihar,
New Delhi-63

Patron

Padma Shree Prof. (Dr.) Mahesh Verma Vice Chancellor, GGSIP University

Local Program Organizing Committee

Prof. Vaishali Singh, Head (CHVE) (Coordinator: 9810118128)

Dr Sanjay K. Das (Co-coordinator : 8447252188)

Prof. Vijita S. Agarwal

Prof. Queeny Pradhan

Dr. Shipra Mital Gupta

Email: chve@ipu.ac.in

Dear Madam, 1, Dr KAUSHAL Shappa, Assistant Prof from BYCOE, give your and to 6th may kingly same that I will show in admin of my college for availing, OD. Regards Dr KHUSINAL SHARMA Assista + Pry BrcoE, Delli PROT Vaishal Single. Head, CHUE GGEIPY. PRINCIPAL Bharati Vidyapeeth's College of Engineering A-4, Paschim Vihar, New Dellai-63

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BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, NEW DELHI

Doc. No.: BV/FRADM/035

Issue No.: 02

Date of Issue: Ist Jan. 2011

ON DUTY LEAVE FORM

It is requested	d that	5	
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	Dr. Sumit Chawlo		
Designation _	Aust. Roof.	Deptt. Applie	Science.
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G B Pant DSEU Okhla I Campus

(Formerly G.B. Pant Institute of Technology Govt. of NCT of Delhi

Certificate of Participation

ceptificate is awarded to Mr./Ms/ Dr. SUMIT CHAWLA of 07-2023 to 04-08-2023 organized by Civil Engineering Department of BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, NEW DELHI for successfully completing one week Faculty Development Programme titled Recent Developments in Green Technology from 31-G B Pant DSEU Okhla III Campus

Dr. Anurag Sharma

Mr. M. K. Gupta

ago.

Dr. S.V. Vageesha

BV/COE/R BD/17/22-23 Amexure-13 Dt. 15/11/2022

To,

The Principal

Bharati Vidyapeeth's College of Engineering

New Delhi

Subject: Regarding reimbursement of conference fee

Respected Sir,

I am assistant professor in applied science department (Chemistry). I have presented a paper in CORCON 2022 organized by the National Association of Corrosion Engineers-Indian Section (NACE) during September 19-22, 2022 at Ananta Hotels and Resorts, Udaipur, INDIA. I have paid 11,800/- fee for the conference. Please reimburse this fee.

Thanking You

Your's Truly

Ashish Kumar Singh

Assistant Professor

(Applied Science)

Sorocupy Angry Armon

PRINCIPAL

Bharati Vidyapeeth's College of Engineering A-4, Paschim Viber,

New Delhi-63



Receipt of Payment for CORCON-2022

Receipt Number: CORCON-22100-2022-09-19

Date: 2022-09-19

Dear Dr. Ashish Kumar Singh,

CORCON Received with thanks INR 11,800 (10,000 + 18% GST) through electronic money transfer towards the registration fee for participating in CORCON 2022 organized by the National Association of Corrosion Engineers-Indian Section (NACE) during September 19-22, 2022 at Ananta Hotels and Resorts, Udaipur, INDIA. The details of the electronic money transfer at the receiver's bank are as follows:

Bank Transaction Id.IHH62000111

Date of receipt: 22/06/2022

Name of Bank from where Money has been transferred; SBI

Currency: INR

Amount Transferred: 11,800

(On behalf of the Organizing Committee, CORCON-2022)

To,

Full Name: Dr. Ashish Kumar Singh

Affiliation: Department of Applied Science, Bharati Vidyapeeth's College of Engineering,

New Delhi, India

Email Address: ashish.singh.rs.apc@itbhu.ac.in

PRINCIPAL

Bharati Vidyapeeth's College of Engineering A-4, Paschim Vihar,

New Delhi-63



Technical Paper

Extracellular Electron Transfer by Pseudomonas aeruginosa in Biocorrosion

Authored by

Ashish Kumar Singh¹, Sheetal², Sanjeeve Thakur², Balaram Pani³

- Bharati Vidyapeeth's College of Engineering, New Delhi
 Netaji Subhas University of Technology, New Delhi
 University of Delhi, New Delhi

Presented by

Ashish Kumar Singh

during 19th-22nd September, 2022 CORCON 2022, INDIA

N Manchar Rao an, Technical Committee

Sumeet Katerla Chairman

BV/ COE/K & D) 44/22-23 TO HOD Six, IT Deft. 24 May 2023. Reimbursement & fees faid for Falent With due respect, 2, auchet Joneja, would really affreciate a refund of 1600 INR faid for fakut afflication submitted for major Project under Ms. Alka Leekha. These Process the fayment at the earliest. Regards / CHEMAK JONEJA on form no. 12 where 20311503119, IT-M naon is not est. Acc: No 1- 9810058272 Acc nobles Name - ChenAK JONEJA Esta. Di Sustra Ich 90.08 2013

FJFSC Gode - KKBK 0004335 KOTAK BANK 5ell, BP Reilway Road. fariolasad 121001 Karyana India Ms ALKA LEEKHA

PRINCIPAL
Bharati Vidyapeeth's
College of Engineering
A-4, Paschim Vilian
New Delhi-63

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- Application Status

APPLICATION STATUS

Awaiting Complete Specification

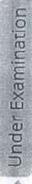


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College of Engineering Bharati Vidyapeeth's A-4, Paschim Vihar, New Delhi-63 PRINCIPAL























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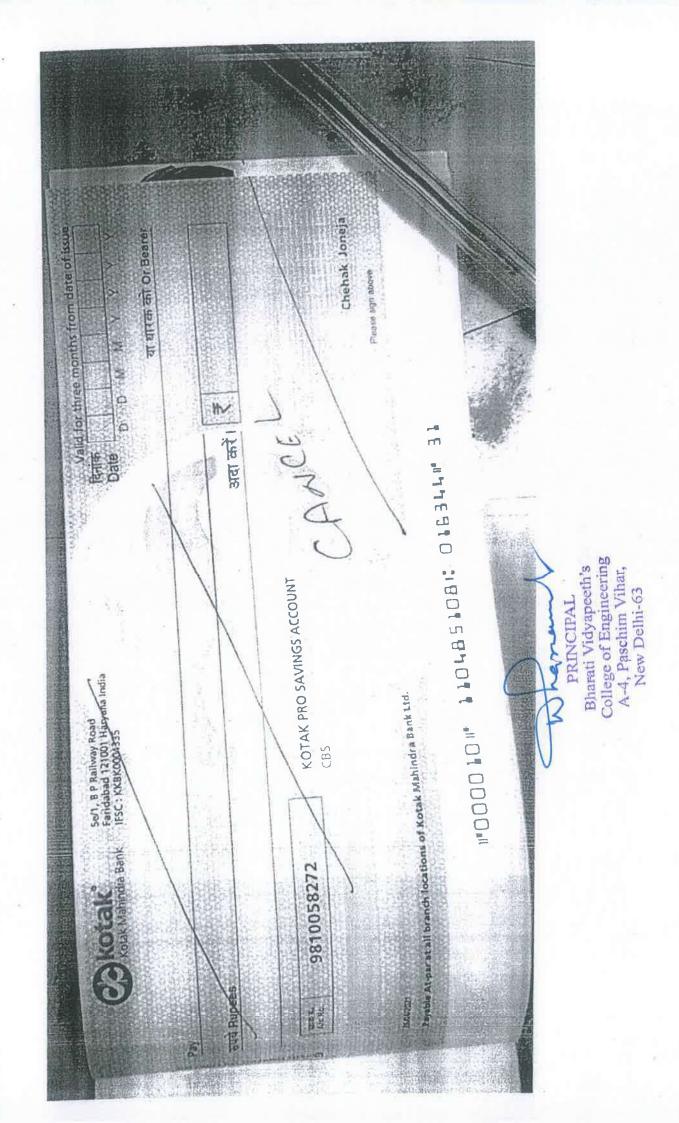
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FORM 1 THE PATENTS ACT, 1970 [39 OF 1970] &

THE PATENTS (AMENDMENT)
RULES, 2003
APPLICATION FOR GRANT OF
PATENT

[See Sections 7, 54 & 135 and subrule (1) of rule 20(1)]

Application No: Filing date: Amount of Fee paid: CBR No. Signature:

1. APPLICANT'S REFERENCE/
IDENTIFICATION NO. (AS ALLOTTED
DV OFFICE)

2. TYPE OF APPLICATION [Please tick (√) at the appropriate category]

Ordinary (v)

Divisional ()

Patent of Divisional Patent of Addition ()

Addition ()

Convention ()

PCT-NP ()

Patent of Addition ()

3A. APPLICANT Name in Full	Nationality	Country of Residence	Address of the Applicant
ALKA LEEKHA	Indian	India	Bharati Vidyapeeth Deemed University, A-4, Rohtak Rd, Paschim Vihar, New Delhi, Delhi, 110063
CHEHAK JONEJA	Indian	India	Bharati Vidyapeeth Deemed University, A-4, Rohtak Rd, Paschim Vihar, New Delhi, Delhi, 110063
SHOURYA DUA	Indian	India	Bharati Vidyapeeth Deemed University, A-4, Rohtak Rd, Paschim Vihar, New Delhi, Delhi, 110063
YASH MANGLIK	Indian	India	Bharati Vidyapeeth Deemed University, A-4, Rohtak Rd, Paschim Vihar, New Delhi, Delhi, 110063

3B. CATEGORY OF APPLICANT [Please tick (√) at the appropriate category]

Natural Person ($\sqrt{}$) Other than Natural Person($\sqrt{}$) Small Entity () Startup () Others ()

4. INVENTORS (S) [Please tick (√) at the appropriate category]

Are all the inventor(s) same $Yes(\sqrt{\ })$ No () as the applicant (s)

If "No", furnish the details of the inventor (s) Address of the Inventor Country of **Nationality** Name in Full Residence Vidyapeeth Deemed Bharati India Indian ALKA LEEKHA University, A-4, Rohtak Rd, Paschim Vihar, New Delhi, Delhi, 110063 Vidyapeeth Deemed India Indian CHEHAK JONEJA University, A-4, Rohtak Rd, Paschim

SHOURYA DUA Indian Vihar, New Delhi, 110063

Bharati Vidyapeeth Deemed University, A-4, Rohtak Rd, Paschim

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6. AUTHORISED REGISTERED PATENT AGENT (S)			114/11110			3903				
			Name			SAKSHI GUPTA				
				le No.		7703885982				
7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA			Posta	e] Addre:	ss B:	B501, Nilachal Apartment Sector 4, Plot no. 3, Dwarka, New Delhi - 110078				
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8. IN CASE	OF APPLICA	EV PARTICI	ULAR	S OF C	ONVE	NTION APPL	ICATION			
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(In case the applicant is India is different than the applicant in the convention country: the applicant in the convention country may sign herein below or the applicant in India may upload the assignment from the applicant in the convention country or enclose the said assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated with the prescribed period)

I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date

(b) Name(s) of the signatory

(c) Signature(s)

iii) Declaration by the applicant(s):

I/We, the applicant(s) hereby declare(s) that -

☑ I am/we are in possession of the above-mentioned invention.

☑ The provisional/complete specification relating to the invention is filed with this application.

- The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by me/us before the grant of patent to me/us.
- There is no lawful ground of objection to the grant of the Patent to me/us.

☑ I am / we are the assignee or legal representative of true & first inventor(s).

The application or each of the applications, particulars of which are given in Paragraph 8 was the first application in convention country/countries in respect of my/our invention.

I/We claim the priority from the above mentioned application(s) filed in convention country / countries and state that no application for protection in respect of the invention had been made in a convention country before that date by me/us or by any person from which I/We derive the title.

My/our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Paragraph 9.

In The application is divided out of my/our application particulars of which are given in Paragraph-10 and pray that this application may be treated as deemed to have been filed on under section 16 of the Act.

The said invention is an improvement in or modification of the invention particulars of which are given in Para - 8.

13.FOLLOWING ARE THE ATTACHMENT WITH THE APPLICATION:

(a) Form 2 Remarks Fee Details Item Rs. 1600/-No. of pages: 7 Complete/provisional specification)# No. of claims -- and No. of claims (s) No. of pages: --No. of pages: --Abstract No. of drawings2 and No. of Drawing(s) No. of pages: 2

In case of a complete specification, if the applicant desires to adopt the drawings filed with his provisional specification as the drawings or part of the drawings for the complete specification under rule 13(4), the number of such pages filed with the provisional specification are required to be mentioned here.

Provisional specification, as applicable (2 copies), No. of pages 7 No. of claims --(a)

Sequence listing in electronic form (b)

- Drawing(s), as applicable (2 copies), No. of sheets2 (c)
- Priority document(s) or a request to retrieve the priority document(s) from DAS (Digital (d) Access Service) if the applicant had already requested the office of first filing to make the priority document(s) if the applicant had already requested the office of first filing to make the priority document(s) available to DAS.
- Translation of priority document/Specification/International Search Report/International (e) Preliminary Report on Patentability.
- Statement and undertaking on Form 3: (f)
- Declaration of inventorship on Form 5; (g)
- Request for examination on Form 18; (h)

Total fee Rs. 1600

I/We hereby declare that to the best of my/our knowledge, information and belief the fact and matters stated herein are correct and I/we request that a patent may be granted to me/us for the said invention.

Dated this 08th day of May, 2023

Sakeli Cuple

SAKSHI GUPTA IN/PA-3903 Agents for the Applicant

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Fall Detection System using Machine Learning Approach

Nirbhay Jain¹, Prashant², Ankil Jha³, Anish Mittal⁴, Shikha Rastogi⁵, Sarita Yaday⁴ 123,454 Bharati Vidyapeeth's College of Engineering, New Delhi-110063

Fall is one of the worst possible things that can happen to older individuals. The creation of fall detection systems is urgently needed due to the ageing population that is constantly expanding. Fall detection system (FDS) based on Machine Learning (ML)approach has emerged as a significant investigated area because of its ability to automatically aid the elderly people. The capability of a Fall detection system to differentiate between the occurrence of fall & non-fall events precisely will determine how effective the system is. In this paper we have done the literature survey on fall detection systems using the machine learning algorithms and suggested the most effective method which has the best accuracy and low false alarm rate. While comparing the results of different classification methods like Support Vector Machine (SVM), K-Nearest Neighbour (KNN), Random Forest. We have analysed that SVM has the greatest accuracy of 97% which is much higher than 90% of KNN and 93% of Random Forest. SVM also has the lowest false alarm rate, demonstrating that it can efficiently distinguish between the various classes with the fewest possible faults.

Keywords: ML, FDS, SVM, KNN.

1.Introduction

Falls that result in death or injury are more likely to happen to elderly adults [1]. Each year, more than one-third of the elderly population falls, which can cause dread and a loss of independence. The demand for healthcare systems is likewise rising as the older population grows [2]. Around 646 bousand fatal falls occur every year worldwide, with seniors over 65 accounting for the majority of victims, as per World Health Organization (WHO, 2018). This places it second behind road traffic injuries in terms of unintentional injury deaths. Falls in elderly are a major public health issue worldwide. It goes without saying that the injuries that older people sustain from falls have a significant negative impact not just only on the healthcare institutions and society as large, but also their families. Elderly persons cannot be watched over continuously, either at home or in a nursing home. If an elderly person

is critically hurt by a fall, they cannot warn anyone [3]. Falls happen when someone loses their equilibrium owing to an unanticipated slide while turning, bending, etc. [4]. Along with the elderly, youngsters, and patients with vision employees, impairments also experience falls. Falls are caused by intrinsic and extrinsic sources, respectively. Ageing, decreased mobility, vision issues, imbalance brought on by diseases, etc. are some of the intrinsic causes. The extraneous factors are poor lighting, loose carpets, slippery bathrooms, hindrance on the path, etc. [5]. The creation of fall detection systems is urgently needed due to the ageing population that is constantly expanding. The three types of fall detection systems are ambience-based devices, wearable-based devices, camera-based systems. The ensuing devices are microphone, PIR, Doppler pressure and accelerometer sensors and accelerometer sensors lege of the pressure ambient devices placed around la sclaim with the detect falls. This approach has the benefits

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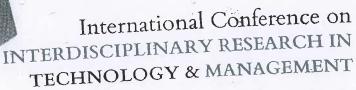












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March 23, 2023

The Principal

Bharati Vidyspeeth's college of Engineering. New Delhi

Subject: Reimbursement of Registration few submitted at ICIU-2023 Conference

Respected Sir,

I am Deepanshi Singh (01411502719) CSE-I 4th year student. I am writing this letter to inform you that I along with my teammates/ Co-Authors (Nutya Nagpal, Prana V Varshrey, Rushie Mittal) att presented owr paper titled "EXPERIMENTAL ANALYSIS OF DIFFERENT AUTISM DETECTION MODELS IN MACHINE LEARNING" at the International conference on Innovative computing and communication (ICICC). 2023 that took place on 17-18 thebruary in Hybrid Mode, which is covered under the scopes Index 20 H.

We did this research as our MINI PROJECT under the guidance of Dr. Preets Magnath ma'am The total sun paid for registration at the conference was 78000/-

As por the quidelines of the college I have enclosed Vidvatacthicosory documents such as my certificate issued by AIX Description page of our Research Paper, registration for receipt and the account details for the reinbursed amount. Reasunder Brancited Son

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INTERNATIONAL CONFERENCE ON INNOVATIVE COMPUTING AND COMMUNICATION (ICICC-2023)

Certificate

This is to certify that Prof. / Dr. / Mr. / Ms. <u>Deepanshi Singh</u> is a presenter/co-author of the paper titled Experimental Analysis of Different Autism Detection Models in Machine Learning in the 6th International Conference on Innovative Computing and Communication (ICICC-2023), organized by Shaheed Sukhdev College of Business Studies, University of Delhi, New Delhi, India in association with the National Institute of Technology Patna, India and the University of Valladolid, Spain on 17th-18th February 2023.

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Experimental Analysis of Different Autism Detection Models in Machine Learning

Deepanshi Singha*, Nitya Nagpala, Pranav Varshneya, Rushil Mittala, Preeti Nagratha

Bharatí Vidyapeeth's College of Engineering, A-4 Block, Baba Ramdev Marg, Shiva Enclave, Paschim Vihar, New Delhi, 110063 India

Abstract:

Autism, frequently called autism spectrum disorder (ASD), is considered a chief developmental illness impacting people's ability to talk and socialize. It contains a huge variety of troubles marked by difficulties with communication skills, repeated behaviors, speech, and nonverbal communication. The goal of this study was to develop a low-cost, quick, and simple autism detector. Based on a brief, structured questionnaire, the model provided in this investigation was trained to diagnose autism. The questionnaire consists of ten yes or no questions, each of which was connected to the everyday life of an autistic patient. The model identifies whether the user had ASD based on the responses provided by the users. Over the dataset "autism screening adult dataset," machine learning algorithms such as NB (Naive Bayes), CART (Classification and Regression tree), LDA (Linear Discriminant Analysis), KNN (K-Nearest Neighbors), and SVM (support vector machine) classifier were used. The most suitable models were found SVM and LDA with an accuracy percentage of 87.07 %.

Keywords: Autism Spectrum Disorder, best accuracy, LDA, low-cost, Machine learning detection model, quick, SVM

1. Introduction

In this experimental analysis, we have implemented and compared different machine learning algorithms on the ASD dataset based on their accuracy and fl_score. The paper comprises the literature review of autism screening methods using ML under Section 2, and Section 3 provides material and methods for autism detection. A performance comparison using the benchmark algorithm is shown in Section 4. This section summarizes the performance assessment with found experimental results. Finally, the paper is concluded with drawbacks, and future scope regarding the analysis in Section 5.

1.1. What do you understand about autism spectrum disorder (ASD)?

Autism Spectrum Disorder (ASD) which is a neurological condition that can affect the development of the human brain. A person with ASD is unable to make eye contact or engage with others (Thablah and Fadi, 2018; Vaishali and Sasikala, 2018). It's worth noting that both environmental and genetic factors could be at play. Symptoms of the illness can begin as early as 3 years old and can remain for the rest of one's life. It is impossible to fully treat a patient with this ailment, but the effects can be minimized for some time if the symptoms show early. Low weight at birth, siblings with ASD, and having elderly parents are all dangers associated with ASD. Instead, there are some communication challenges, such as incorrect laughter and giggling, lack of pain sensitivity, lack of direct eye contact, lack of suitable voice response, and so on (Suman Raj & Sarfaraz Masood,

People with ASD also struggle to show interest and perform constant repetitive behaviors, such as repeating certain actions, repeating words or phrases time after time, becoming upset when the environment changes, showing little focus on specific aspects of the topic, such as numbers, facts, and so on, and being slightly sensitive to another person in other situations, such as light, sound, and so on (Frith and Happé, 2005)

1.2. What are the major contributions to date in ASD detection?

Various studies have been conducted based on several different techniques which include machine learning approaches for identifying ASD using different machine learning classifiers such as (SVM, K-NNN, LDA, etc.). Feature selection in determined that only 10 out of 21 characteristics are adequate to predict ASD among adults (Vaishali and Sasikala, 2018). Models have also performed feature transformation (Z-score, sine function and log) before classification to improve the reliability and quality of prediction. Video screening methods have also been used to monitor ASD patients to enhance the prediction process (Akter et. al., 2019).

1.3. What is the need for ASD detection?

Autism has been quickly increasing in recent years across human history (Suman Raj and Sarfaraz Masood, 2020). Early discovery of a neurological illness can be extremely beneficial to the subject's not only mental but also physical well-being. Due to the increasing use of models based on machine learning in the prediction of many human ailments, early diagnosis taken on health and lifestyle characteristics are conceivable and the symptoms of ASD are more frequently diagnosed. The indications of ASD can be widely recognized by parents and teachers at school-aged adolescents and children. Adults have a harder time detecting ASD symptoms than children and adolescents since certain ASD symptoms are linked to other mental health issues. This has piqued our interest in recognizing and analyzing ASD disease so that its therapy might be improved.

Machine learning along with its powerful algorithms is helpful to analyze multiple attributes at the same time it can give faster and more accurate results if applied properly. This study provides a cost-effective, fast and trustworthy model for ASD prediction.

The objectives of this study broadly include:

- To study and apply different Machine learning classification
- To find the best machine learning model based on fl score and orma accuracy

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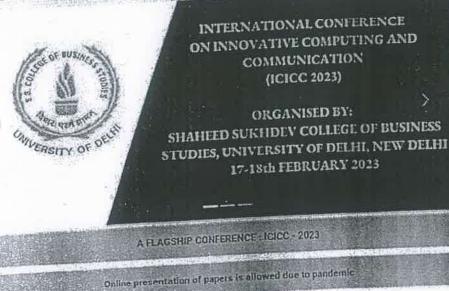
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