

Mr. Makhan Kumbhkar
PhD(Submitted)

Email: makhan@christianeminent.com, makhan@researchblog.in

Currently, working as Young Professional (IT) at **ICAR-INDIAN INSTITUTE OF SOYBEAN RESEARCH, Indore**. Working as visiting lecturer at School of Data Science & Forecasting, School of Biotechnology, DAVV and Christian Eminent College, Indore. Currently Submitted Ph.D. in Computer Science from Devi Ahilya Vishwavidyalaya, University in Indore, Madhya Pradesh, India. Currently to his credit he has 38 Patent (Some Patents Granted with Different Countries Australia, Germany, and Canada. 36 publications (Some papers in Scopus Indexing, Springer and IEEE Conferences) and 3 copyrights. I am author of different books as well as chapter in books at wileyScrivener, IGI Global and Springer. Having more than 10 years' experience in both, academic as well as administrative domain.

I am conducting lectures on Deep Learning, Machine Learning, Computer vision, Image and text analytics, NLP, and Python, Java, Advance java (MVC), Flask, Streamit, Flutter, Cloud Computing, DBMS, MongoDB Database, SCALA, Spark, Kafka, OpenCV to M. Tech(Analytics), M.Sc. and MBA(Analytics), MSC(BT).

In my current role, I have developed AI-driven solutions for soybean image detection, insect detection, and forecasting systems for farmers using real-time data from ICAR-IISR, Indore benefiting agricultural communities across India. Additionally, I have developed an AI-based Chatbot for 24/7 farmer support, demonstrating my ability to apply technology for societal impact.

Specialization:

Deep Learning, Machine Learning, Cloud Computing, Data mining, Data Warehouse, Website Deployment. MapReduce, Hive, Sqoop, Airflow, Data Bricks and Data Lake.

Currently working on the following websites:

<https://ceprd.org>

<https://iisrindore.icar.gov.in/>

<https://christianeminent.com>

<http://www.imjbs.com>

<http://stepupcareeracademy.org>

<http://protoplus.in>

<http://www.girjms.in>

Research Project (UGC):

Name of Project: Study of Design and Development of Cloud Environment in Autonomous Institution.

Position in Project: Co-investigator

Period: 2 years

Research Guidance:

Supervision of M.Phil. dissertations

Dr Vivek Raich, Performance improvement of software as services and platform as services.

Educational Background:

Degree	Mode	College/University	Year of Passing
Ph.D. (CS)	Regular	Devi Ahilya Vishwavidyalaya, University in Indore, Madhya Pradesh, India.	Submitted
M.Phil (CS)	Regular	Government Holkar Science College, College in Indore, Madhya Pradesh, India.	2013

MCA	Regular	Rajiv Gandhi Proudyogiki Vishwavidyalaya Bhopal, Madhya Pradesh, India	2008
B.Sc. (CS)	Regular	Vikram University, Ujjain, Madhya Pradesh, India	2005

Publications:

S. No.	Author	Title	Journal
1	Makhan Kumbhkar et al	Decoding Viewer Reactions: Sentiment and Emoji analysis on Youtube	International Conference on Recent Advancement and Modernization in Sustainable Intelligent Technologies & Applications (2025) Springer.
2	Makhan Kumbhkar et al	Design and Implementation of Web Scraper for Fact-Checking Website	International Conference on Recent Advancement and Modernization in Sustainable Intelligent Technologies & Applications (2025) Springer.
3	Makhan Kumbhkar et al	LSSS-System: Fake Content Detection Using Linguistic Features https://ieeexplore.ieee.org/document/10911794	International Conference On ICTBIG(2024) Publisher: IEEE
4	Makhan Kumbhkar et al	Data Analytics for Fake Content Detection on Web	International Conference on Data Science and Big Data Analytics (IDBA-2024), Springer.
5	Makhan Kumbhkar et al	An expert system for detecting fake content using machine learning and deep learning model through existing dataset. https://link.springer.com/book/9789819798544	International Conference on Business Intelligence, Computational Mathematics, and Data Analytics (iBCD-2024) Springer.
6	Makhan Kumbhkar et al	Sentimental Analysis of ICAR-IISR Indore YouTube Channel using Lexicon-Based Approaches	Soybean Research 21(2): 1-13 (2023) Soybean Journal
7	Makhan Kumbhkar et al	An Ensemble Model for Assessing Fake and Real Web Content on the Real Dataset	FUZZY SYSTEMS AND SOFT COMPUTING, Volume: Issue 19:1, 2024 PISSN- 1819-4362 semiannual (UGC Care Listed Journal)
8	Makhan Kumbhkar et al	Fake News Detection: State - of - the - Art Approaches, Challenges and Research Directions	Science & Technology Journal Vol. 10 Issue 2 July 2022 ISSN: 2321-3388(UGC Care Listed Journal)
10	Makhan Kumbhkar et al	Fake Content Analysis on the Different Existing Dataset Using Machine Learning	FUZZY SYSTEMS AND SOFT COMPUTING, Volume: Issue 16:2, 2021 PISSN- 1819-4362 semiannual (UGC Care Listed Journal)
11	Makhan Kumbhkar et al	An Expert System for Detecting Fake and Real Website URL Using Machine Learning Approaches through Domain Based Features	Science & Technology Journal Vol. 8 Issue 2 July 2020 ISSN: 2321-3388 (UGC Care Listed Journal)

12	Makhan Kumbhkar et al	Compare ML Models to Improve Twitter Fake News Discovery and Verification https://ieeexplore.ieee.org/document/10525839/	2023 International Conference on New Frontiers in Communication, Automation, Management and Security (ICCAMS), Publisher: IEEE
13	Makhan Kumbhkar et al	DETR-DC5 Approaches for Improved Spatial Object Detection in Satellite Imagery https://ieeexplore.ieee.org/document/10448599	International Conference on Intelligent computing and control for Engineering and Business systems (ICCEBS 2023), Publisher: IEEE
14	Makhan Kumbhkar et al	Geospatial Object Detection in Hyperspectral Imagery using Spectral-Spatial Networks https://ieeexplore.ieee.org/document/10449075	International Conference on Intelligent computing and control for Engineering and Business systems (ICCEBS 2023), Publisher: IEEE
15	Makhan Kumbhkar et al	Integration of Machine Learning and Computer Vision to Detect and Prevent the Crime. https://ieeexplore.ieee.org/document/10526105	2023 International Conference on New Frontiers in Communication, Automation, Management and Security (ICCAMS), Publisher: IEEE
16	Makhan Kumbhkar et al	Dimensional Reduction Method based on Big Data Techniques for Large Scale Data https://ieeexplore.ieee.org/document/10100261	2023 IEEE International Conference on Integrated Circuits and Communication Systems (ICICACS), Publisher: IEEE
17	Makhan Kumbhkar et al	Comparative analysis of machine learning models for fake content detection http://www.sjcjycl.cn/article/view-2023/4255.php	Journal of Data Acquisition and Processing Scopus Indexing
18	Makhan Kumbhkar et al	Delay Tolerant and Energy Reduced Task Allocation in Internet of Things with Cloud Systems https://ieeexplore.ieee.org/document/10060362/authors#authors	2022 International Interdisciplinary Humanitarian Conference for Sustainability (IIHC) DOI: 10.1109/IIHC55949.2022.10060362 Publisher: IEEE
19	Makhan Kumbhkar et al	Fake news detection: state-of- art approaches, challenges and research directions https://www.jetir.org/view?paper=JETIR1810B10	Journal of Emerging Technologies and Innovative Research
20	Makhan Kumbhkar et al	Evaluation of Block-Chain Transaction Accuracy using Neural Network Model https://ieeexplore.ieee.org/document/9823465	2022 2nd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE) DOI: 10.1109/ICACITE53722.2022.9823465 Publisher: IEEE
21	Makhan Kumbhkar et al	Artificial Intelligence Assisted IoT Data Intrusion Detection https://ieeexplore.ieee.org/document/9711795	2021 4th International Conference on Computing and Communications Technologies (ICCCT) DOI: 10.1109/ICCCT53315.2021.9711795 Publisher: IEEE
22	Makhan Kumbhkar et al	Investigating the Role of Block Chain to Secure Identity in IoT for Industrial Automation https://ieeexplore.ieee.org/document/9823763	2022 2nd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE) DOI: 978-1-6654-3789-9/22/\$31.00 ©2022 IEEE. Publisher: IEEE

23	Makhan Kumbhkar et al	Big Data Architecture for Network Security https://ieeexplore.ieee.org/document/9823023/authors#authors	Wiley Data and Cybersecurity
24	Makhan Kumbhkar et al	Creating virtual doctors by deploying the deep learning model for identifying pneumonia disease using chest-Xray. https://sciencescholar.us/journal/index.php/ijhs/article/view/8354	International Journal of Health Sciences Volume: 6, Issue: 2, Year: 2022
25	Makhan Kumbhkar et al	Study on Well Designed Irrigation System through Applying Iot Designed in Reflection of Crop Field http://thedesigengineering.com/index.php/DE/article/view/7679	Design Engineering
26	Makhan Kumbhkar et al	Expert System: Empirical Add-ons to Artificial Intelligence https://junikhyatjournal.com/no_13_jun_20/76.pdf	Juni Khyat ISSN: 2278-4632 (UGC Care Group I Listed Journal) Vol-10 Issue-6 No. 13 June 2020
27	Makhan Kumbhkar et al	Detection of Maize Disease Using Random Forest Classification Algorithm https://turcomat.org/index.php/turkbilmat/article/view/3141	Turkish Journal of Computer and Mathematics Education (TURCOMAT)

28	Makhan Kumbhkar et al	Survey of Data Mining in Cloud Computing Environment https://www.isroset.org/pub_paper/IJSRCSE/ISROSET-IJSRCSE-001513.pdf	Journal of Emerging Technologies and Innovative Research, (ISSN-2349-5162)
29	Makhan Kumbhkar et al	Survey paper on big data processing and technologies https://www.jetir.org/papers/JETIR1903866.pdf	Global journal of engineering science and research, ISSN 2348 – 8034
30	Makhan Kumbhkar et al	An analysis on use of big data in cloud computing environment https://rb.gy/zb77p	Global journal of engineering science and research, ISSN 2348 – 8034
31	Makhan Kumbhkar et al	Cloud Computing Security Issues and Challenges https://rb.gy/0nkyy	International Journal of Scientific Research in Computer Science and Engineering ISSN: 2320-7639
32	Makhan Kumbhkar et al	Security Analyzing in Unix for Cloud Computing Environment	International Journal of Innovative Research in Computer and Communication Engineering ISSN(Online) 2320-9801 N (Print) 2320-979
33	Makhan Kumbhkar et al	Cloud Based College management information System for Autonomous institute	International Research Journal of Engineering and Technology

34	Makhan Kumbhkar et al	Analysis of Cloud Computing in Higher Education	International Journal of Advanced Research in Computer Science and Software Engineering
35	Makhan Kumbhkar et al	Security in Cloud Environment https://www.isroset.org/journal/IJSRCSE/full_paper_view.php?paper_id=137	International Journal of Scientific Research in Computer Science and Engineering
36	Makhan Kumbhkar et al	Performance Improvement of Software as a Service and Platform as a Service in Cloud Computing Solution https://isroset.org/pub_paper/IJSRCSE/ISROS-ET-IJSRCSE-001193.pdf	International Journal of Scientific Research in Computer Science and Engineering
37	Makhan Kumbhkar et al	Analysis of Cloud Computing Security Issues in Software as a Service https://www.isroset.org/journal/IJSRCSE/full_paper_view.php?paper_id=136	International Journal of Scientific Research in Computer Science and Engineering

Patent (Intellectual Properties):

S. No.	Year	Title
1.	2020	A TECHNIQUE FOR TRAFFIC PREDICTION AND CONGESTION CONTROL IN IOT NETWORKS USING MACHINE LEARNING. Patent No:2020102637 http://pericles.ipaustralia.gov.au/ols/auspat/quickSearch.do?queryString=2020102637&resultsPerPage=
2.	2020	A SYSTEM AND METHOD FOR ANALYZING DYNAMIC OUT-OF-HOME ADVERTISING BASED ON REAL-TIME VIEWERS BIOMETRIC INFORMATION. https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent no: 202141023045
3.	2021	A SYSTEM FOR CONSUMPTION OF BACKDRAFT FORCE ENERGY FROM TRAIN STATIONS. https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent No:202141020637
4.	2021	A SYSTEM AND METHOD FOR MINING TRAFFIC PATTERNS OF IOT DEVICES IN EDGE NETWORKS. https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent No: 202141031766
5.	2021	IOT BASED PRODUCTION OF ENVIRONMENT FRIENDLY BIO-FUEL FROM RENEWABLE RESOURCES. http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021104265 Patent No: 202141031766
6.	2021	UTILITY BASED WEB CONTENT MINING APPROACHES. http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021105407 Patent no: 2021105407
7.	2021	AN IOT BASED SYSTEM FOR EMERGENCY HEALTHCARE. Patent No:202111049864 https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus

8.	2021	METHODOLOGY FOR IMPLEMENTATION ONLINE CLASSROOM PLATFORM LEARNING TECHNIQUE. https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent No: 202211002249
9.	2021	MACHINE LEARNING APPROACH TO VALIDATE THE AUTHENTICITY OF NEWS USING NATURAL LANGUAGE PROCESSING. https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent No: 202221000671
10	2021	AI AND WIRELESS BASED SMART DRUG PRESCRIPTION MANAGEMENT FOR AUTONOMOUS DRUG DELIVERY SYSTEM
11	2021	ML & BIG DATA-BASED CLOUD COMPUTING CONSTRUCTION ASSESSMENT SYSTEM FOR ANDROID APPLICATIONS. https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent No: 202141044813
12	2022	ML BASED BUILDING FACIAL EMOTION DETECTION MODEL USING CNN https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent No: 202241025598
13	2022	MULTIPLE SENSORS-BASED SYSTEM FOR DETECTION OF BREAST CANCER USING CNN MACHINE LEARNING MODEL.
14	2022	INDUSTRY 4.0 BASED ML AND INTERNET OF THINGS FOR OBSERVING AND SAFEGUARD THE ENERGY METER OVER INTERNET. https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent No: 202241026790
15	2022	AMBULATORY ASSISTIVE DEVICE FOR VISUALLY IMPAIRED PERSON USING ARTIFICIAL INTELLIGENCE WITH ASSISTANCE IN MAP NAVIGATION. https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent No: 202211027079
16	2022	MULTI-AGENT TOPOLOGY FOR AN ENERGY-EFFICIENT BUILDING STRUCTURE WITH ARTIFICIAL INTELLIGENT. https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent No: 202241030964
17	2022	CLASSIFICATION OF DISEASES IN GLORIOSASUPERBA PLANT USING DEEP LEARNING SCHEME. https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent No: 202241028705
18	2022	FACIAL EMOTION DETECTION USING SEMI-SUPERVISED MODIFIED SELF ORGANIZING FEATURE MAP NEURAL NETWORK METHOD. https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent No: 202221027213
19	2022	SYSTEM TO ANALYSIS OF ADVERTISEMENTS ON ONLINE VIDEO SHARING PLATFORM FOR DIGITAL MARKETING THROUGH MACHINE LEARNING TO REACH MASS AUDIENCES.
20	2022	DESIGNING A WSN PLATFORM FOR LONG TERM ENVIRONMENTAL MONITORING FOR IOT APPLICATIONS. https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent No: 202241037755

21	2022	METHOD AND PROCESS TO IMPROVE THE DIGITAL EDUCATION SYSTEM. https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent No:202211042293
22	2022	MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE BASED ON FEEDBACK SYSTEM FOR EDUCATIONAL INSTITUTIONS. https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent No:202211042296
23	2022	IMAGE REGISTRATION AND RECOGNITION OF BRAIN IMAGES CAPTURED USING MULTIPLE MODALITIES FOR EARLY DETECTION https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent No:202211042584
24	2022	WOMEN ENTREPRENEURSHIP CHALLENGES, PLANNING AND STRATEGY FOR SUSTAINABLE GROWTH IN INDIA https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent No:202211042576
25	2022	IoT BASED PATIENT MONITORING SYSTEM USING SENSORS TO DETECT, ANALYSE AND MONITOR TWO PRIMARY VITAL SIGNS https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent no: 202211048061
26	2022	DEVELOPMENT OF AN IoT BASED HEALTH MONITORING SYSTEM FOR E HEALTH https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent no: 202211048060
27	2022	IoT BASED WEARABLE DEVICE TO MONITOR THE SIGNS OF QUARANTINED REMOTE PATIENTS OF COVID-19 https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent no: 202211048063
28	2022	IoT BASED REMOTE PATIENT HEALTH MONITORING SYSTEM https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent no: 202211048059
29	2022	IoT BASED HEALTH MONITORING & AUTOMATED PREDICTIVE SYSTEM TO CONFRONT COVID-19 https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent no: 202211048062
30	2022	DETECTION OF FAKE NEWS TEXT CLASSIFICATION ON COVID-19 USING DEEP LEARNING APPROACHES https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent No: 202211053246
31	2022	MACHINE LEARNING MODEL TO IDENTIFY FAKE NEWS FOR COVID-19 IN HEALTH CARE SYSTEM https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent No: 202211053232
32	2022	DETECTING FALSE INFORMATION IN MEDICAL AND HEALTH CARE DOMAINS https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent No: 202211052606
33	2022	DETECTION OF FALSE MEDICAL REPORT GENERATED BY MRI MACHINE OF X RAY USING MACHINE LEARNING TECHNIQUES https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus

		Patent No: 202211053949
34	2022	HEALTHCARE MISINFORMATION DETECTION AND FACT-CHECKING:A NOVEL APPROACH https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent No: 202211055173
35	2022	METHOD FOR ASSESSING VALUE OF A POST IN A SOCIAL MEDIA GAMIFICATION PLATFORM https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent No: 202231006716
36	2023	IOT BASED HUMIDITY MONITORING SYSTEM USING MACHINE LEARNING APPROACH IN AGRICULTURE FIELD https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus Patent No: 202341001498

Copyrights (Intellectual Properties):

S. No.	Year	Title
1.	2021	Human robotic interaction by using artificial intelligence. https://copyright.gov.in/SearchRoc.aspx
2.	2021	Effect of aluminum nano particles and Mechanical properties of medium density fiber. https://copyright.gov.in/SearchRoc.aspx
3.	2021	Secure demand side management using machine learning and internet of things. https://copyright.gov.in/SearchRoc.aspx

Chapter in Books:

S. No.	Year	Title
1	2023	Introduction to Emotion Detection and Predictive Psychology in the Age of Technology https://www.igi-global.com/books/open-access/
2	2023	Development of a framework to Integrate Smart Home and Energy Operation Systems to Manage Energy Efficiency through. https://onlinelibrary.wiley.com/
3	2022	Investigating Role of IoT in the Development of Smart Application for Security Enhancement. https://link.springer.com/chapter/10.1007/978-3-031-04524-0_13
4	2022	Cyber Security and Network Security. https://onlinelibrary.wiley.com/doi/abs/10.1002/9781119812555.ch11

5	2023	An Efficient Design and Comparison of Machine learning Model for Diagnosis of Cardiovascular disease. https://benthambooks.com/book/9789815136531/
6	2023	Deep Learning-Based Regulation of Healthcare Efficiency and Medical Services. https://benthambooks.com/book/9789815136531/
7	2023	Integrating IoT Based Security with Image Processing https://novapublishers.com/shop/the-impact-of-thrust-technologies-on-image-processing/

Author in Books:

S. No.	Year	Title
1	2021	MEDICAL DIAGNOSIS USING ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING TECHNIQUES https://www.flipkart.com/medical-diagnosis-using-artificial-intelligence-machine-learning-techniques/p/itm9996af8cf8aad
2	2021	INTRODUCTION TO DEEP LEARNING https://www.amazon.in/Introduction-Deep-Learning-Subba-Polamuri/dp/9394339213/ref=sr_1_2?qid=1682149141&refinements=p_27%3AD.+Makhan&s=books&sr=1-2
3	2022	MACHINE LEARNING USING PYTHON https://sipinternationalpublishers.com/product-detail.php?PID=ODc0

Memberships/Awards:

	Awards
1	Young Researcher Award from MAA SHAKUMBARI TRUST, GRETER NOIDA, U.P., India
2	Environmental Protection Awards By Global Foundation of Research and development and DAVV, Indore. For Excellent work for Environment Protection.
Memberships	
1	Lifetime Member of Excel Research Management Association.
2	ICPCT IEEE, International Conference as a Technical Program Committee member.
3	Lifetime Member of International Association of Research and Developed Organization.
4	Reviewer Board Member of Machine Learning Research.
5	Reviewer Member of International Journal of Engineering Research & Technology.

6	Reviewer Member of International Journal of Advanced Trends in Computer Applications (IJATCA)
7	Reviewer Member of Journal of Computer Science Engineering and Information Technology Research (IJCSERIT).
8	Member of Asia-Pacific Artificial Intelligence Association.
9	Editorial Member of Prestigious International Journal of Recent and Innovation Trends.
10	Editorial Board Member of SI International Journal of Artificial Intelligence (SIAI).
11	Member of International Journal of Advance research in Science and Engineering.
12	Member of Prestigious Journal International Journal of Innovative research in Science and Engineering.
13	Reviewer Member of Journal of Emerging Technologies and Innovative Research.
14	Member of International journal of creative research thought.
15	Member of IAENG International Journal of Computer Science.
16	Member of International Journal of science Technology and Management.
17	Member of International Journal of Electrical & Electronics Engineering.
18	Member of International Association of Research and Development Organization.

Resource Person:

S. No.	Year	Title
1	2025	Invited as expert talk on Scope of IT for Computer Science Students at Saint Paul College, Indore.
2	2025	Invited as expert talk on Scope of Enhancing The Programming Skills at Sage university.
1	2023	Invited as expert talk on Machine learning at Sage university.
2	2022	Multivariate Analysis Trainer at Prestige Institute of Management And Research, Indore, M.P., India.
3	2022	Core Java Trainer at Government Maharani Laxmi Bai Girls Postgraduate College, Indore.
4	2020	One Day International Webinar Organized by Navyug Arts & Commerce College Jabalpur, India on title "Scope of Employment after covid-19 in Global Era" 31 May 2020.
5	2020	One Day International Webinar Organized by Govt. P.G College Bina, India on title "Aatm-Nirbhar Bharat and Possibilities of Employment" on 12, July-2020
National/International Conference / Seminar/Webinar Attended:		
1	One Day National Webinar Organized by IEEE at KMEA Engineering College, Kerala, India on "IEEE - Enhancing Your Project Work and Research" at 18, May-2021.	

2	One Day International Webinar Organized by IEEE Student Branch-GSSS Institute of Engineering and Technology for Women, Mysuru in Association with IEEE Mysore Sub Section, and IEEE Bangalore on “Evolutionary Learning and its Engineering Applications” on 21 May 2021.
3	One Day National Webinar Organized IEEE Circuits and Systems (CAS) Society Bangalore Chapter, India on “Anti-virus hardware: Exploring the new domain in system security” at 26, June-2021.
4	One Day National Webinar Organized by Certified Handwriting Analyst, on the title “Secrets in your Handwriting” on 15 May 2021.
5	One Day National Webinar Organized by IEEE Information Theory Society (ITS) Bangalore Chapter on “IOT Based Monitoring Systems” on 22 May 2021.
6	One Day National Webinar Organized by IEEE Information Theory Society (ITS) Bangalore Chapter on “Indoor Localisation in Wireless Sensor Network” on 23 May 2021.
7	One Day National Webinar Organized by Soundarya Institute of Management & Science, Bangalore University, on the title “Professionalism among faculty members in higher education” on 24th May 2021.
8	One Day National Workshop organized by Cognizance Academia (Registered under Govt. of India) on "Digital Devices: Safety & Security" on 23 May,2021
9	One Day National Workshop organized by KPR Institute of Engineering and Technology, On the title “Hands on Training Statistics using R- programming" on 22-May,2021.
10	One Day National Workshop Organized by Military Institute of Science and Technology Mirpur, Dhaka IEEE Student Branch on the title “Machine Learning: The Beginning” 24 May 2021.
11	One Day National Webinar Organized by IEEE Information Theory Society (ITS) Bangalore Chapter on “Machine Learning for Wireless Communication” on 8 June 2021.
12	One Day National Webinar Organized by IEEE Information Theory Society (ITS) Bangalore Chapter on the title “Advancements in Speech and Audio Quality Assessment” 13 July 2021.
13	One Day National Webinar Organized by Organised by the Department of Mathematics, St.Joseph’s Institute of Technology, Chennai on “Application of Grammar Systems to Cryptography”, on 22nd June 2020
14	One Day National Webinar Organized by Govt. Home Science PG Lead College on “Impact of GST and role played by it in Indian Economy” on 10 July 2020.
15	National Conference Organized by M.B. Harris College of Arts & A.E.Kalsekar College of Commerce & Mgmt.Burhan Chowk, Nawayat Nagar on the title “ Minding our minds in Current scenario - How to manage yourself during this pandemic” on 20th May 2020.
16	National Conference Organized by Christian Eminent College, Indore on March 16, 2019
17	National Conference Organized by Christian Eminent College, Indore on March 3, 2017.
18	National Conference Organized by Christian Eminent College, Indore on March 15, 2015.
19	National Conference Organized by Christian Eminent College, Indore on March 5, 2013.

FDP/WORKSHOP ATTENDED	
1.	Six Days FDP Organized by E & ICT Academy, IIT Kanpur (A Joint initiative of MeitY & IIT Kanpur), on the title “ IOT & Drone” 27-02-2023 to 04-03-2023.

2.	Three Week International FDP Organized by K L University, University in Guntur, Andhra Pradesh, India on the title “Research perspective on AI, ML, Data Science & IOT” on 17 May to 5 June 2021.
3.	Five Days International FDP Organized by Krishna Engineering College in Ghaziabad, Uttar Pradesh, on the title “Future and Challenges in Engineering and Technology” on 14-18 May 2021.
4.	Two Day International FDP Organized by A2Z Edu Learning Hub LLP, on the title “Theory Building & Data Analysis in Research” on 29-30 May 2021.
5.	Two Day Workshop Organized by IEEE AISSMS IOIT Student Branch Chapter in Collaboration with IEEE Silver Oak University on Title “Innovation and IPR” on 24-25 May, 2021.
6.	One Week FDP Organized by Prestige Institute of Management, Dewas on the title “Online Research Methodology workshop” on 24 -29 May 2021.
7.	Two Day International Workshop Organized by IEEE Information Theory Society (ITS) Bangalore Chapter on “Machine Learning for Wireless Communication” on 8 June 2021.
8.	Five Days FDP Organized by Sri Venkateshwara College of Engineering and Technology, Puducherry on the title “Impact of Covid on higher Education and Research initiatives” on 24-28 May 2021.
9.	Five Days FDP Organized by Sri Venkateshwara College of Engineering and Technology, Puducherry on the title “Exploring Entrepreneurship & Startup opportunities” on 5-9 July 2021.
10.	Five Days FDP Organized by CMR Engineering College, Hyderabad on the title “ML/DL BY USING COLAB AND KNIME A ROAD MAP” on 1 -5 June 2021.
11.	Five Days FDP Organized by St. Francis De Sales College, also known as SFS College, Nagpur, on the title “Advance Teaching, Learning, Research Methodology and Innovations ” on 1st June to 5th June, 2021.
12.	Five Days FDP Organized by Maturi Venkata Subba Rao (MVSR) Engineering College, Hyderabad, on the title “Multi Technologies” on 27 June to 3rd July, 2021.
13.	Eight Days International FDP Organized by Patrician College of Arts and Science College in Chennai, Tamil Nadu, on the title “Effective and Quality Research Writing” on 7 -15 June 2021.
14.	Seven Days International FDP Organized by Patrician College of Arts and Science College in Chennai, Tamil Nadu, on the title “Strategies for Effective Classroom Teaching ” on 26 July -1 August, 2021.
15.	AICTE Sponsored One Week Online STTP Organized by Matrusri Engineering College, Saidabad, Hyderabad on the title “RECENT ADVANCE IN EV TECHNOLOGY” on 17- 22 ,May, 2021.
16.	Seven Days International FDP Organized by St. Martin's Engineering College Secunderabad, Telangana, India, on the title Phase-I “Medical Image Processing & It's Applications in Automated Disease Detection” 18th June to 24th June 2021.
17.	Seven Days International FDP Organized by St. Martin's Engineering College Secunderabad, Telangana, India, on the title Phase-II “Medical Image Processing & It's Applications in Automated Disease Detection” 20-26, May 2021.
18.	Five Days FDP Organized by Reva University Bengaluru Karnataka, India, on the title “Literature and humanity” on 24-28 May 2021.
19.	Five Days International FDP Organized by Sri Guru Tegh Bahadur Khalsa College, Jabalpur, India on the title “Emerging Trends in Teaching and Technology” on 16-20 May 2021.
20.	Four Days International Examination Conference Organized by Council of Examiners -India and SkillSlate Foundation, Pune powered by Zovy Studios, Pune “Examination-IDEA 2021” on 8-11 June 2021.

21.	Five Days National FDP Organized by Nagindas Khandwa College in Mumbai, Maharashtra, India on the title “Tools and technique for Excellent Doctoral Research” on 16-20 May 2021.
22.	Three Days National FDP Organized by Indian Institute of Management and Commerce on the title “Research Methodology for Social Sciences” on 17-21 May 2021.
23.	Two Days International Webinar Organized by SLI International Webcasting Network on the title “Role of Nanotechnology in Current Scenario” on 27-28 May ,2021.
24.	Ten Days Online Faculty Development Program Organized by Institute of Management Studies, Davv, Indore on the title “Curriculum Review in the Light of NEP 2020 : A Futuristic Perspective” on 5-16 ,July 2021
25.	Three Days National Webinar Organized by National Institute of Disaster Management, MHRD India, on the Title “Online Process Orientation Programme on Child Centric Disaster Risk Reduction” on 09-11 Aug 2021
26.	Five Days National FDP Organized by Toshniwal Arts, Commerce & Science College, India on the title “Educational Video Creation: E -Content Development” on 11-13 May 2020.
27.	Six Days National FDP Organized by Acropolis Institute of Technology and Research, Indore, India on the title “Data Science: Unfolding Layers of Knowledge (Phase I)” on 23-28 Nov, 2020.
28.	Five Days National Level E-Conference Organized by Council of Examiners, India and SkillSlate, Pune, Indore, India on the title “National Examinations Transformation-2020” on 10-14 Aug, 2020
29.	Three Days International E-Conference Organized by Government Vidarbha Institute of Science & Humanities, Amravati on the title “Strategies & Challenges in Higher Education during COVID 19 Lockdown Period in India with reference to the World” on 15th - 17th May,2020.

Certificate Courses	
1	Certificate for Completion of R Language Training organized by Spoken Tutorial Project, IIT Bombay, funded by National Mission on Education through ICT, MHRD, Govt., of India. On May 2nd 2020.
2	Beginner course to learn Machine learning Regression in Python organized by https://www.learnmall.in , on 20th May 2021.
3	HANDS ON EXPERIENCE OF LATEX SOFTWARE by the Department of Applied Science & Humanities, PIEMR Indore (M.P.) on 10th May 2020.
4	Certificate for PHP organized by SOLOLEARN on 29 April 2020.
5	Certificate for JAVA organized by SOLOLEARN on 29 April 2020.
6	Certificate course in Intellectual Property Rights (IPR), organized by Udemy on 16 Feb,2023
7	Certificate course in TensorFlow for Deep Learning with Python, organized by Udemy on 16 Feb,2023

Conference paper	
1	Mr. Kumbhkar, analysis of cloud computing technology for e-government, Emerging trends in information technology & management NET-ITM-III - 2015, Indore.
2	Mr. Kumbhkar, Performance Improvement of Software as a Service and Platform as a Service in Cloud Computing, Emerging trends in information technology & management NET-ITM-III - 2013.

Work Experience

S. No.	Institution	Designation	From	To	Experience
1	Indian Institute of Soybean Research (IISR), Indore, M.P., India	Young Professional – (IT)	OCT-2022	Till Date	
2	ORLANDO ACADEMY (CDAC ACTS Authorized Training Centre)	Data science visiting lecturer	OCT-2023	Till date	
3	Institute of Analytics, USA	Adjunct Faculty	Sep-2022	Till date	
4.	Christian Eminent College, Academy of Management Professional Education & Research, Indore, Madhya Pradesh, India	Full Time Faculty	FEB -2012	OCT-2022	10 Years
5.	Christian Eminent College, Academy of Management Professional Education & Research, Indore, Madhya Pardesh, India	Visiting lecturer	OCT-2022	MAY-2023	8 Month
6.	Prestige Institute of Management And Research, Indore, M.P.,India	Visiting lecturer	Sep -2022		2 Months
7.	School of Data Science, Devi Ahilya Vishwavidyalaya, University in Indore, Madhya Pradesh, India	Visiting lecturer	Feb. 2020	Till Date	
8.	School of Biotechnology, Devi Ahilya Vishwavidyalaya, University in Indore, Madhya Pradesh, India	Visiting lecturer	Aug- 2022	Till Date	
9.	Government Holkar Science College, College in Indore, Madhya Pradesh, India.	Guest Lecturer	Jan.2011	Sep.2011	8 Months

10.	InstaDotAnalytics	Full Stack Developer (Part time)	Feb,2019	June,2022	3 years
11.	League IT Solutions, Noida, UP, India	Software Developer	2010	2011	1 Year

Machine learning & Deep learning Projects		
S. No.	Title	Objective
1	Building a system which automatic recognize plate number with OpenCV and Tesseract OCR	Our system recognition automatic number-plate. For that purpose we are using Tesseract OCR An Optical Character Recognition Engine (OCR Engine) to automatically recognize text in vehicle registration plates.
2	Face and Hand Landmarks Detection using Python	In this project we used Holistic model from mediapipe solutions to detect all the face and hand landmarks.
3	Building a Visual Similarity-based Recommendation System Using Python	Recommendation system help us for converting the shoppers to customers, engaging the customers, boosting sales and revenue, and delivering the most relevant content.
4	Deep style web application using transfer learning .	Deep style is a transfer learning based neural style transfer web application that stylizes our image to one of the 4 styles available (at the moment).
6	Face recognition of Mark Zuckerberg, Bill Gates and Mukesh Ambani using face_recogniton and openCV	We used OpenCV and pillow library for detecting particular person image.
7	PAN card fraud detection using computer vision.	The purpose of this project is to detect tampering/fraud of PAN cards using computer vision. This project will help the different organizations in detecting whether the Id i.e. the PAN card provided to them by their employees or customers, or anyone is original or not.
8	Fake newsclassifier	This project looks at building, training and evaluating neural networks to solve the fake news classification problem on Kaggle dataset. It uses Python and Keras.
9	Cartoonify Image with Machine Learning	Transform images into its cartoon. The objective of this machine learning project is to CARTOONIFY the images. Thus, we will build a python application that will transform an image into its cartoon using machine learning libraries.
10	Emojify – Create your own emoji with Python	The objective of this machine learning project is to classify human facial expressions and map them to emojis. We will build a convolution neural network to recognize facial emotions. Then we will map those emotions with the corresponding emojis or avatars
11	Loan Prediction using Machine Learning	The idea behind this ML project is to build a model that will classify how much loan the user can take. It is based

		on the user's marital status, education, number of dependents, and employments. We can build a linear model for this project.
12	Housing Prices Prediction using Machine learning	The dataset has house prices of the Boston residual areas. The expense of the house varies according to various factors like crime rate, number of rooms, etc. It is a good ML project for beginners to predict prices on the basis of new data.
13	MNIST Digit Classification using Machine Learning	The MNIST digit classification python project enables machines to recognize handwritten digits. This project could be very useful for computer vision. Here we need to use MNIST datasets to train the model using Convolutional Neural Networks.
14	Stock Price Prediction using Machine Learning	There are many datasets available for the stock market prices. This machine learning beginner's project aims to predict the future price of the stock market based on the previous year's data.
15	Fake News Detection using Machine learning and Natural language processing	Fake news spreads like a wildfire and this is a big issue in this era. we can learn how to distinguish fake news from a real one. we can use supervised learning to implement a model like this.
16	Music Genre Classification using Machine Learning	The idea behind this python machine learning project is to develop a machine learning project and automatically classify different musical genres from audio.
17	Bitcoin Price Predictor using Machine learning	The bitcoin price predictor is a useful project. Blockchain technology is increasing and there are many digital currencies rising. This project will help you predict the price of the bitcoin using previous data.
18	Uber Data Analysis Project using machine learning	The project can be used to perform data visualization on the uber data. The dataset contains 4.5 million of uber pickups in the New York city. This many data needs to be represented beautifully in order to analyse the rides so that further improvements in the business can be made.
19	Personality Prediction Project Using supervised machine learning	The Myers Briggs Type Indicator is a personality type system that divides a person into 16 distinct personalities based on introversion, intuition, thinking and perceiving capabilities. we can identify the personality of a person from the type of posts they put on social media.
20	Credit Card Fraud Detection using machine learning	Companies that involve a lot of transactions with the use of cards need to find anomalies in the system. The project aims to build a fraud detection model on credit cards.
21	Sign Language Recognition with Machine Learning	A lot of research has been done to help people who are deaf and dumb. In this sign language recognition project, we create a sign detector that detects sign language. This can be very helpful for the deaf and dumb people in communicating with others.

22	Customer Segmentation using Machine Learning	Customer segmentation is a technique in which we divide the customers based on their purchase history, gender, age, interest, etc. It is useful to get this information so that the store can get help in personalize marketing and provide customers with relevant deals. With the help of this project, companies can run user-specific campaigns and provide user-specific offers rather than broadcasting same offer to all the users.
23	Sentiment Analysis using Machine Learning and deep learning	Sentiment analysis is the process of analysing the emotion of the users. we can categorize their emotions as positive, negative, or neutral. It is a great project to understand how to perform sentiment analysis and it is widely being used nowadays. This is one of the most popular machine learning projects. The reason behind this is every company is trying to understand the sentiment of their customers if customers are happy, they will stay. This project could show a path to reduce customer churn.
24	Speech Emotion Recognition using Machine Learning	This is one of the best machine learning projects. The speech emotion recognition system uses audio data. It takes a part of speech as input and then determines in what emotions the speaker is speaking. We can identify different emotions like happy, sad, surprised, angry, etc. This project could be helpful for identifying customer emotions during the call with the call centre.
25	Online Grocery Recommendation using Collaborative Filtering	Collaborative filtering is a great technique to filter out the items that a user might like based on the reaction of similar users. A grocery recommendation system would be a great project to make customers realize what they would like in their baskets. It is good for those who are planning to start the Grocery Store.
26	Movie Recommendation System Using Machine Learning	Recommendation systems are everywhere, be it an online purchasing app, movie streaming app or music streaming. They all recommend products based on their targeted customers. A movie recommendation system is an excellent project to enhance your portfolio.
27	Automatic License Number Plate Recognition System	The objective of this machine learning project is to detect and recognize the license number plate of a vehicle and read the license numbers printed on the plate. This could be a good application for security scans, traffic monitoring, etc.
28	Web Application for Fake content Scrapping using Machine learning	We can scrapped information using these scrapper form websites like https://www.snopes.com/

Personal Details: -

Name: Makhan Kumbhkar
Designation: Young Professional IT

Department: Computer Science Application, ICAR-IISR, Indore
Mob No: 9009312353