



**(Mohammad Arif Ali Usmani)**

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## **PROFILE**

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- A dynamic, result-oriented and accomplished professional, experienced for over **+30 years**, currently spearheading as a **Assistant Professor in Department of Computer Application, Member ILI-LMS (Integral Learning Initiative – Learning Management System) in Integral University Lucknow and Ex. Manager Operation (I.T.) with Digital Smart Solutions, Hi-Tech. Plaza Near Naza Market, Lalbagh-Lucknow, Ex. Manager (System & IT Infrastructures) & Senior Lecturer with College of Engineering, Science & Technology Lucknow affiliated to Abdul Kalam Pradesh Technical University (AKTU) Former Uttar Pradesh Technical University (UPTU) and Ex. Manager System (ERP) UPLDC ( U.P. Sodic Land Development Corporation-U.P. Govt.)**.
- **Currently, I am working in my research work in related field Machine Learning, Artificial Intelligence, Image Processing and Open CV with Data Science, MATLAB and Python for Robotic Mobile App Development in the field of Agriculture.**
- Possess expertise and experience in MIS, ERP and Cloud Development while using Oracle , Form Design and Java-8 with Developer, Power Builder and AWS, Google & Azure in Visual Graphical Interface & Microsoft Technologies, Project Management, General Administration, Facility Management, Procurement and Sourcing & Coordination skills along with the ability to support multiple and simultaneous projects in a matrix organizational structure.
- Excellent domain knowledge of telecom protocols, software applications and software products linked to hardware's.
- Expertise in managing business operations in a large business environment, strategizing the business directions for developing new business & new products.

- Goal oriented and accomplished professional with outstanding performance in providing technical resolution resulting in customer satisfaction and delight.
- Articulate communicator who can fluently speak the language of both people and technology, blending technical expertise with interpersonal skills while interacting with the customers/teams and providing design and development support.

▮ **Core Competencies:**

***Project Conceptualization & Management ❖ Operations Management ❖ Product Testing ❖ Technical Support ❖ Training Support ❖ Consultant Support ❖ Team Management ❖ Relationship Management ❖ Software Development ❖ Quality Assurance & Control***

**EDUCATION & DEVELOPMENTS**

- Perusing PhD (Automation of things with Digital Image Processing & Machine Learning-AI in Computer Application) 2020, Integral University, Lucknow.
- POST GRADUATE OF ENGINEERING (Conduct By AICTE & UGC) 2018 Successful Qualified: Information Technology / Information Technology (Integrated) From: Motilal Nehru National Institute of Technology – Teliarganj-Allahabad, U.P.
- M. TECH. (Information Technology) 2005 Sam Higginbottom University Allahabad Former A.A.I., Deemed University, Allahabad U.P. Recognized by UGC and AICTE Government of India, First Division

**CORPORATE TRAINING AND FACULTY DEVELOPMENT CERTIFICATE COURSES**

- CERTIFICATE FOR FACULTY DEVELOPMENT PROGRAMME PARTICIPATION: AI/ML AND DATA SCIENCE FOR INDUSTRY 4.0 (ADVANCED LEVEL) (26/02/2024 TO 01/03/2024) Conducted By Computer Science and Engineering Department & Organized by National Institute of Technical Teachers Training and Research Chandigarh & Integral University, Lucknow U.P.
- CERTIFICATE FOR FACULTY DEVELOPMENT PROGRAMME PARTICIPATION: REFRESHER COURSE AI AND CURRENT RESEARCH (19&22/08/2023, 14&28/08/2023, to 04&10&11-11-2023) Conducted By Computer Science & Engineering and Computer Application Department in Collaboration with Department Integral University Lucknow Under aegis of Indian Society for Technical Education (ISTE), Lucknow U.P
- CERTIFICATE FOR FACULTY DEVELOPMENT PROGRAMME PARTICIPATION: R PROGRAMMING (09/10/2023-13/10/2023) Organized by : National Institute of Technical Training & Research –NITTTR, Kolkata, Ministry of Education, Govt. of India, Conducted By : Human Resource Development Centre (HRDC), Integral University, Lucknow
- CERTIFICATE FOR FACULTY DEVELOPMENT PROGRAMME PARTICIPATION: FUNDAMENTAL OF MACHINE LEARNING AND DEEP LEARNING (25/09/2023-29/09/2023) Organized by : National Institute of Technical Training & Research –NITTTR, Kolkata, Ministry of Education, Govt. of India, Conducted By : Human Resource Development Centre (HRDC), Integral University, Lucknow

- CERTIFICATE FOR FACULTY DEVELOPMENT PROGRAMME PARTICIPATION: INNOVATION IN CONSTRUCTION AND GREEN BUILDING MATERIALS (07/08/2023 TO 11/08/2023) Conducted By Civil Engineering Department & Organized by National Institute of Technical Teachers Training and Research Chandigarh & Integral University, Lucknow U.P
- CERTIFICATE FOR FACULTY DEVELOPMENT PROGRAMME PARTICIPATION: SCIENTIFIC PLOTTING IN PYTHON (12/04/2023 TO 09/05/2023) Organized By Civil Engineering Department, Integral University, Lucknow U.P
- CERTIFICATE FOR FACULTY DEVELOPMENT PROGRAMME PARTICIPATION: REFRESHER COURSE ON MACHINE LEARNING WITH R (30/05/2022-10/06/2022) Organized by : National Institute of Technical Training & Research – NITTTR, Kolkata, Ministry of Education, Govt. of India, Conducted By : Human Resource Development Centre (HRDC), Integral University, Lucknow
- CERTIFICATE FOR FACULTY DEVELOPMENT PROGRAMME PARTICIPATION: ARTIFICIAL INTELLIGENCE & IoT APPLICATION IN CIVIL ENGINEERING (12/09/2022-16/09/2022) Organized by : Conducted By Civil Engineering Department & Organized by National Institute of Technical Teachers Training and Research Chandigarh & Integral University, Lucknow U.P
- CERTIFICATE FOR FACULTY DEVELOPMENT PROGRAMME PARTICIPATION: REFRESHER COURSE IN MECHANICAL ENGINEERING (04/07/2022-15/07/2022) Organized by : Conducted By Civil Engineering Department & Organized by National Institute of Technical Teachers Training and Research Chandigarh & Integral University, Lucknow U.P
- HELP AND SURVEY DATA PROVIDED BY ME TO RESEARCH SCHOLAR NEW YORK UNIVERSITY (USA) & COLUMBIA UNIVERSITY NEW YORK USA (01/10/2021-CONTINUE) Organized by : New York University AND Columbia University New York USA
- CERTIFICATE FOR FACULTY DEVELOPMENT PROGRAMME PARTICIPATION: IN THE FREE SOFTWARE AND RESOURCES FOR TECHNICAL EDUCATION (ICT-175 TECHNOLOGY, PEDAGOGY & RESEARCH (25/11/2021-08/12/2021) Organized by : National Institute of Technical Training & Research –NITTTR, Chandigarh, Ministry of Education, Govt. of India, Conducted By :Department of Computer Sc& Engineering under the aegis of Human Resource Development Centre (HRDC), Integral University, Lucknow
- CERTIFICATE FOR FACULTY DEVELOPMENT PROGRAMME PARTICIPATION: IN THE TECHNOLOGY, PEDAGOGY & RESEARCH (25/11/2021-08/12/2021) Organized by Department of Computer Application under the aegis of Human Resource Development Centre (HRDC), Integral University, Lucknow
- CERTIFICATE FOR FACULTY DEVELOPMENT PROGRAMME PARTICIPATION: IN THE NEXT-GEN COMPUTING TECHNOLOGY (10/11/2021-25/11/2021) Organized by Department of Computer Application under the aegis of Human Resource Development Centre (HRDC), Integral University, Lucknow
- CERTIFICATE FOR PARTICIPATION IN THE QIP WORKSHOP RESEARCH METHODOLOGY & DATA ANALYSIS (26/07/2021-10/08/2021) Organized By Faculty of Doctoral Studies & Research Integral University, Lucknow U.P.

- CERTIFICATE FOR PARTICIPATION IN THE WORKSHOP PYTHON AND ITS APPLICATION ON IOT 08/02/2019 Softpro India Computer Technologies Pvt. Ltd& Integral University, Lucknow U.P.
- CERTIFICATE OF MERIT INTER DEPARTMENTAL SPORT MEET 2018 Integral University, Lucknow U.P.
- CERTIFICATE OF PROJECT WORK PLANNING AND EXECUTION THROUGH ICT (08/10/2018 TO 12/10/2018) National Institute of Technical Teachers Training and Research Chandigarh & Integral University, Lucknow U.P.
- CERTIFICATE OF APPRECIATION SECOND INTERNATIONAL CONFERENCE ON ADVACEMENT IN COMPUTER ENGINEERING & INFORMATION TECHNOLOGY (ACEIT-2018) 06-07 April, 2018, Integral University, Lucknow U.P.
- CERTIFICATE OF ARTIFICIAL NEURAL NETWORK & FUZZY LOGIC THROUGH ICT (24/04/2017 TO 28/04/2017) National Institute of Technical Teachers Training and Research Chandigarh & Integral University, Lucknow U.P.
- CERTIFICATE OF REMOTE SENSING AND GIS APPLICATION IN CARBON FORESTRY (16/02/2017 TO 10/03/2017) National Institute of Technical Teachers Training and Research Chandigarh ISRO& Integral University, Lucknow U.P.
- CERTIFICATE OF TOOLS FOR ENGINEERING RESEARCH THROUGH ICT (30/01/2017 TO 03/02/2017) National Institute of Technical Teachers Training and Research Chandigarh & Integral University, Lucknow U.P.
- CERTIFICATE OF CLIMATE CHANGE AND DISASTER MANAGEMENT THROUGH ICT (06/11/2017 TO 10/11/2017) National Institute of Technical Teachers Training and Research Chandigarh & Integral University, Lucknow U.P.
- CERTIFICATE COURSE REGARDING MANAGEMENT & ADMINISTRATION 2006U.P Management & Administration Training Centre, Aliganj Lucknow
- MS EXCHANGE SERVER2000 2004TATA InfoTech Education, Lucknow
- WINDOWS 2000 OFFICE 2000 & INTERNET, ORACLE9I DATABASE ADMINISTRATION 2003Brain Computer Education, Lucknow
- POWER BUILDER, VISUAL BASIC & SYBASE 2002NIIT, Lucknow
- WINDOWS NT ADMINISTRATION & NETWORKING CONCEPT 2001Jaipuria IIT, Lucknow
- CERTIFICATE COURSE IN VISUAL INTERFACE FOR SYSTEM APPLICATION 1999Lakhotia Computer Centre, Lucknow
- CERTIFICATE COURSE REGARDING INTERNET 1999Lakhotia Computer Centre, Lucknow

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## TECHNICAL COMPETENCIES

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<b>RDBMS</b>	Oracle 11g, Sybase, MySQL, SQL-Server, Delphi, IBM-Informix
<b>DBMS</b>	dBase, Devbase, FoxPro, FoxBASE+, Clipper
<b>Front End</b>	Moodle, Web Tech., Syntactically Awesome Style Sheets, Angular JS, Visual Studio Code, DEVELOPER 2000, Visual Basic 6.0, Visual C++, Power Builder, Oracle Form
<b>Language</b>	BASIC, FORTRAN, COBOL, PASCAL, C, C++, VC++, JAVA, Python, .Net Technology, PL/ SQL, HTML, XML, ASP, UML.
<b>Web Technology</b>	HTML, CSS, JAVA Script, XML, ASP and Android Development.
<b>Cloud Technology</b>	Chef, Ansible, Docker in AWS, Google & Azure
<b>Utilities \ Tools</b>	AI, Machine Learning, Management Information System (MIS), Personal Information System, Financial Accounting System, MS-Office, Lotus, Photo Shop
<b>Electronics</b>	Broad Band Communication & Wireless Mobile communication
<b>Hardware Maintenance</b>	Total Hardware Maintenance in System Including Networking Device, Printer, CD-Writer, Mother Board, Graphics Card & Total System Assembling
<b>Operating System</b>	DOS, UNIX, Linux (Limpus, Ubuntu, Red Hat & Fedora) , Windows-7&10, Windows-NT & 2000

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### RESEARCH INTEREST:

- Innovative Research Project
- Machine Learning & AI
- Digital Image Processing
- Software Engineering
- Cloud Computing
- Data Base Management System with Data Science & Analysis
- Theory of Relativity with Quantum Computing

## SUMMARY OF RESEARCH ACCOMPLISHMENT:

It looks like you've worked on a variety of innovative research projects that cover a range of advanced topics, including:

- **Innovative Research Project:** Leading or participating in groundbreaking projects, likely focused on new approaches or technologies.
- **Machine Learning & AI:** Engaging in artificial intelligence and machine learning, developing models or algorithms for intelligent systems.
- **Digital Image Processing:** Working with techniques to enhance, manipulate, or analyze digital images.
- **Software Engineering:** Contributing to software development methodologies, design patterns, or software architecture.
- **Cloud Computing:** Utilizing cloud infrastructure for scalable computing, data storage, or software deployment.
- **Database Management System with Data Science & Analysis:** Integrating database management with data science techniques to analyze and derive insights from large datasets.
- **Theory of Relativity with Quantum Computing:** Investigating the interplay between physics and quantum computing, potentially exploring the computational applications of relativity theory.

These fields collectively suggest a strong background in both theoretical and practical aspects of modern computing and scientific research.

## PROFESSIONAL MEMBERSHIP:

- International Association of Engineers ( IAENG ), Membership No. 363206
- Institute of Electrical and Electronics Engineers ( IEEE ) Student Membership

## COURSE TAUGHT:

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- Introduction to IT Industry
- Web Development
- Software Engineering
- Digital Image Processing
- Cyber Security
- Artificial Intelligence
- Machine Learning
- Combinatory & Graph Theory
- Python Programming,

- Software Project Management
- Mobile Computing
- Introduction to Computer and IT
- Operating System
- Digital Electronics
- Computer Network LAB
- Web Technology
- Compiler Design
- OOPS with Java
- C++ & Computer Concept & Programming in C & Python
- DATA Base Management System (DBMS & RDBMS)
- Introduction to Computer in Medical Science) and IT's Significance in Medical Science.

### **ADMINISTRATIVE/DEPARTMENTAL RESPONSIBILITY**

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- Member of Integral Learning Initiative-Learning Management System (ILI-LMS) Managerial Provider for all faculties of Integral University, Lucknow Including Shahjahanpur and Integral Institute of Medical Science and Research, Lucknow: Administrative and University Level.
- DQAC Member of NAAC Criteria II: Departmental Level.
- Convener of Integral Learning Initiative-Learning Management System (ILI-LMS) Committee: Departmental Level.

### **STUDENTS SUPERVISION**

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- BCA Final Year Projects
- MCA Final Year Projects

### **PUBLISHED/GRANT PATENTS**

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- IoT and Deep Learning Based Non-invasive zoo animal healthcare Tunnel Model, National Patent, Agency Name: Integral University, Lucknow, Published on dated 15/08/2023.

### **PUBLISHED/ACCEPTED SCI/SCOPUS RESEARCH PAPERS**

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- An Approach to Develop a Model to Detect the Phosphorus and Potassium Deficiency in Paddy Crop on Agriculture Farm Using DIP & MLFusion: Practice and Application (FPA), Publisher: Elsevier ISSN (online): 2692-4048 with MCN: IU/R&D/2024-MCN0003089 ( Published on Dated: 30-12-2024).
- An effective framework for identifying crop nutrients using KNN Approach, Computer and Electronic in Agriculture, Publisher: Elsevier ISSN: 0168-1699 (In Progress at Experimental Level).

## **PAPER PUBLISHED IN INTERNATIONAL CONFERENCES**

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- “Analysis and Design A Framework identifying Crop Nutrients Using KNN Approach: Systematic Review” in International Conference on “Emerging Trends in Technology & Its Impact in Law(ETTIL-2022)” from 29th and 30th March 2022, Organized by Department of Computer Application, Integral University Lucknow, UP, India
- “Color Space Analysis using KNN Approach for Crop nutrients identification in Precision Agriculture: Systematic Review” in 2nd International Conference on “Advance and Innovative Technologies in Engineering (ICACITE-2022)” held on 28th and 29th April, 2022 organized by the Department of Electrical and Electronics Engineering, Galgotias College of Engineering & Technology (GCET), Greater Noida, IEEE Conference Record No.:#53722.
- Published first review research paper in Emerging Trends in Information Technology, (Nitya Publication, Bhopal), ISBN 975–93-94894-03-7 by Department of Computer Application, Integral University, Lucknow, UP, India.
- “An Approach to Detect the Nitrogen Deficiency of Paddy Crop on Agriculture Farm using Digital Image Processing” in International Conference on “Advances in Science, Engineering and Technology (ICASET-2024) held on 30th and 31th July 2024, MCN: IU/R&D/2024/MCN0002791 Organized by Department of Computer Application, Integral University Lucknow, UP, India

## **PUBLISHED NON-SCI-SCOPUS BUT PEER REVIEWED RESEARCH PAPERS**

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- “Changing Frame of Reference of Anything”, aiming to provide facility of goods / Human being Transfers from one place to another, anywhere on earth with in 1/7 seconds 05, May 2015. Anna Publication

## **BOOK CHAPTERS**

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- “Ethical Consideration the Development of Artificial Intelligent” In Book Chapter: Diving into the World of Intelligent Solutions: Scopus, Accepted on Dated 05-06-2024.