




Faculty Performa

| Title | Dr. | First Name | Anjani | Last Name | Kumar | Photograph |
|---|----------|---|--------|-----------|-------|--|
| Designation | | Assistant Professor | | | |  |
| Address | | Cluster Innovation Centre, Room No. 312, Third Floor, Rugby Sevens Building, G. C. Narang Marg, University Stadium, University of Delhi, Delhi-110007. | | | | |
| Phone No | Office | +91111-27666706 (Ext. 324) | | | | |
| Residence | Mobile | +91-9968014804 | | | | |
| Email | Web-Page | akumar@cic.du.ac.in ; anjaniwerma29@gmail.com https://cic.du.ac.in/ https://sites.google.com/site/knowakverma/home | | | | |
| Educational Qualifications | | | | | | |
| Degree | | Institution | | | | |
| Ph.D. Computer Science | | Dept. of Computer Science, University of Delhi | | | | |
| PG M.Sc. Computer Science | | Dept. of Computer Science, University of Delhi | | | | |
| UG B.Sc. (Hons) Computer Science | | PGDAV College, University of Delhi | | | | |
| Career Profile | | | | | | |
| Cluster Innovation Centre (CIC), University of Delhi <i>Assistant Professor</i> | | | | | | Delhi <i>July 2015 - Till present</i> |
| Maitreyi College, University of Delhi <i>Assistant Professor</i> | | | | | | Delhi <i>July 2014 - July 2015</i> |
| Shyama Prasad Mukherji College, University of Delhi <i>Assistant Professor</i> | | | | | | Delhi <i>July 2012 - July 2014</i> |
| Keshav Mahavidyalaya, University of Delhi <i>Guest Lecturer</i> | | | | | | Delhi <i>Jan 2012 - Apr 2012</i> |
| ACS <i>Associate Engineer</i> | | | | | | Noida <i>Feb 2012 - Dec 2012</i> |
| Vinove Software & Services <i>HTML Developer</i> | | | | | | Delhi <i>June 2011 - Dec 2011</i> |

| Administrative Assignments | |
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| Academic Year | Assignments |
| 2023-2024 | <ul style="list-style-type: none"> • Convener & IQAC Nodal Person, IQAC & Annual Report Committee, CIC • Member, Taskforce Committee, NAAC, CIC • Member, Admission Committee, CIC • Member, Alumni Committee, CIC • Member Discipline Committee, CIC |
| 2022-2023 | <ul style="list-style-type: none"> • Convener, IQAC Committee, CIC • Member, Admission Committee, CIC • Member, Alumni Committee, CIC • Member Discipline Committee, CIC |
| 2021-2022 | <ul style="list-style-type: none"> • Convener, IQAC Committee, CIC • Member, Admission Committee, CIC |
| 2020-2021 | <ul style="list-style-type: none"> • Convener, Computer & Website Committee, CIC • Member, Academic Committee/Online teaching related Committee, CIC • Member, Departmental Purchase Committee, CIC |
| 2019-2020 | <ul style="list-style-type: none"> • Convener, Computer & Website Committee, CIC • Member, Academic Committee, CIC • Coordinator, Project Committee, B.Tech, CIC |
| 2018-2019 | <ul style="list-style-type: none"> • Member, Admission Committee, CIC • Member, Computer & Website Committee, CIC • Member, Workload & Time -Table Committee, CIC |
| 2017-2018 | <ul style="list-style-type: none"> • Member, Admission Committee, CIC • Member, Computer & Website Committee, CIC • Member, Workload & Time -Table Committee, CIC |
| 2016-2017 | <ul style="list-style-type: none"> • Member, Admission Committee, CIC • Member, Examination Committee, CIC • Member, Infrastructure & Space Committee, CIC • Member, Grievance Committee, CIC • Member, News Letter, Annual Report, Website Committee, CIC • Member, Library Committee, CIC • Member, Cultural and Extra-Curricular Activities Committee, CIC • Member, Website Advisory Committee, University of Delhi. |

2015-2016

• Member, Admission Committee, CIC

• Member, Examination Committee, CIC

• Member, Panel for 'Selection of BA (H) Humanities and Social Science', CIC

Areas of Interest / Specialization

- **Machine Learning and Big data:** Design, Modeling and Solutions of real life problems through ML algorithms.
- **Information Security Systems:** Real-life applications that make information secure and safe from misuse.
- **Steganography & Steganalysis:** The art of hiding message into digital image and the detection of it.
- **Recommender System:** Recommendation of different items/products to make liking pattern and somewhat security issues in it.
- **Expert Systems:** Making machine intelligent to think and act accordingly like human computer interaction.
- **Virtual Reality:** Designing prototype for virtual classroom interactive sessions with 3D review.
- **Artificial Intelligence in Historical Innovation:** Study of innovative and creative scriptures and monuments and its aspects.

Subjects Taught

Odd Semester – 2023: Computer and Brain: Knowledge Discovery and Artificial Intelligence

Odd Semester – 2023: Software Engineering and Project Management

Odd Semester – 2023: Computer Graphics & Visualization

Odd Semester – 2023: Computing Systems Architecture

Even Semester – 2023: Object Oriented Programming

Even Semester – 2023: Instructing computing devices: Operating System

Even Semester – 2023: Data Structure & Design

Odd Semester – 2022: Computer and Brain: Knowledge Discovery and Artificial Intelligence

Odd Semester – 2022: Software Engineering and Project Management

Odd Semester – 2022: Handling information through Data Modeling & Design

Odd Semester – 2022: Computer Graphics & Visualization

Even Semester – 2022: Reflecting thought processes via Object Oriented Programming

Even Semester – 2022: Instructing computing devices: Operating System

Odd Semester – 2021: Automating real world through Programs: Programming Fundamentals

Odd Semester – 2021: Understanding Computing Systems Architecture

Odd Semester – 2021: Handling information through Data Modeling & Design

Odd Semester – 2021: Software Project Management

Even Semester – 2021: Instructing computing devices: Operating System

Even Semester – 2021: Reflecting thought processes via Object Oriented Programming

Odd Semester – 2020: Automating real world through Programs: Programming Fundamentals

Odd Semester – 2020: Understanding Computing Systems Architecture

Odd Semester – 2020: Handling information through Data Modeling & Design

Odd Semester – 2020: Software Project Management

Even Semester – 2020: Reflecting thought processes via Object Oriented Programming

Even Semester – 2020: Optimizing memory use through Data Structure and Design

Even Semester – 2020: Instructing computing devices: Operating System

Odd Semester – 2019: Handling information through Data Modeling & Design

Odd Semester – 2019: Instructing computing devices: Operating Systems

Odd Semester – 2019: Software Project Management

Even Semester – 2019: Reflecting thought processes via Object Oriented Programming

Even Semester – 2019: Understanding Computing Systems Architecture

Odd Semester – 2018: Handling information through Data Modeling & Design

Odd Semester – 2018: Computer and Brain: Knowledge Discovery and Artificial Intelligence

Odd Semester – 2018: Software Project Management

Even Semester – 2018: Reflecting thought processes via Object Oriented Programming

Even Semester – 2018: Understanding Computing Systems Architecture

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| Odd Semester – 2017: Handling information through Data Modeling & Design | |
| Odd Semester – 2017: Computer and Brain: Knowledge Discovery and Artificial Intelligence | |
| Odd Semester – 2017: Software Project Management | |
| Even Semester – 2017: Reflecting thought processes via Object Oriented Programming | |
| Even Semester – 2017: Computer Graphics & Visualization | |
| Odd Semester – 2016: Instructing computing devices: Operating Systems | |
| Odd Semester – 2016: Handling information through Data Modeling & Design | |
| Odd Semester – 2016: Computer and Brain: Knowledge Discovery and Artificial Intelligence | |
| Even Semester – 2016: Reflecting thought processes via Object Oriented Programming | |
| Even Semester – 2016: Understanding Computing Systems Architecture | |
| Odd Semester – 2015: Instructing computing devices: Operating Systems | |
| Odd Semester – 2015: Handling information through Data Modeling & Design | |
| Odd Semester – 2015: Computer and Brain: Knowledge Discovery and Artificial Intelligence | |
| Odd Semester – 2015: Digital Security: Compression and Encryption | |
| Odd & Even Semester – From 2012 to 2015 (in UG College): Internet Technologies | |
| | System Administration & Maintenance |
| | Computer Fundamentals |
| | Computer Applications in Business |
| | Programming Fundamentals |
| | Data Structures |
| | Database Systems and Multimedia Applications |
| Research Guidance/Project Supervision | |
| Shilling Attack Detection in web Recommendation Systems <i>B.Tech(ITMI)-2023</i> | Riya, Ayushi, Shruti, Archi <i>Semester Long Project</i> |
| thecart admin panel - ecommerce admin panel <i>B.Tech(ITMI)-2023</i> | Rajan, Premchand Gurjar <i>Semester Long Project</i> |
| Fitness Website <i>B.Tech(ITMI)-2023</i> | Vipul Wasnik <i>Semester Long Project</i> |
| App Development <i>B.Tech(ITMI)-2022</i> | Ansh, Harsh, Pintu, Rajan, Raman, Ojus <i>Summer Internship Project</i> |
| Youtube video translator <i>B.Tech(ITMI)-2022</i> | Abhishek, Jayaram <i>Summer Internship Project</i> |
| Detection of Fake Reviews using Python <i>B.Tech(ITMI)-2021</i> | Akash Erugurala, Nandan, Piyush, Pratibha, Rakesh <i>Semester Long Project</i> |
| Web Portal of Cluster Innovation Centre <i>B.Tech(ITMI)-2021</i> | Zaleesh Ahmad, Naveen Kumar <i>Major Industrial Project</i> |
| Image Steganalysis <i>B.Tech(ITMI)-2020</i> | Nancy <i>Semester Long Project</i> |
| Building Custom Android ROM+Kernel <i>B.Tech(ITMI)-2020</i> | Akshansh Bhanjana <i>Semester Long Project</i> |
| Drowsiness detection system <i>B.Tech(ITMI)-2020</i> | Arjit Yadav <i>Semester Long Project</i> |
| Application development <i>B.Tech(ITMI)-2020</i> | Hitesh Gautam, Sahil Gupta <i>Semester Long Project</i> |
| Secure System for Misuse of Use <i>B.Tech(ITMI)-2020</i> | Zaleesh Ahmad, Sahil Gupta <i>Semester Long Project</i> |
| AI-enabled Login System using Facial Recognition <i>B.Tech(ITMI)-2020</i> | Zaleesh Ahmad, Paras Yadav <i>Summer Internship Project</i> |
| Statistic Analysis of Crime In India <i>B.Tech(ITMI)-2019</i> | Bhanu Mittal, Bhawna Maharana <i>Semester Long Project</i> |
| Satellite Image Anlysis <i>B.Tech(ITMI)-2019</i> | Arjit Yadav, Shreyansh Tripathi <i>Semester Long Project</i> |
| Web App to write data from selected text from PDF to Repository (Cloud) or Local File <i>B.Tech(ITMI)-2019</i> | Manas Awasthi Github <i>Semester Long Project</i> |

Smart Environment: Energy Conservation*B.Tech(ITMI)-2018***Earthquake Interface***B.Tech(ITMI)-2018***Developing and Designing E-Portfolio Website***B.Tech(ITMI)-2018***Recommender systems***B.Tech(ITMI)-2018***Vivek, Tapas Kashyap, Animesh Kujur***Semester Long Project***Bhanu Mittal***Summer Internship Project***Arjit Yadav, Zaleesh Ahmad***Summer Internship Project***Prachi Arora***Summer Internship Project***Shilling attacks in Recommender Systems***B.Tech(ITMI)-2017***Divya, Lavnish, Vivek, Ayush Raj, Sumit Lakra***Semester Long Project***Digital Image Steganography***B.Tech(ITMI)-2016***Ayush Jain, Aditya Gaur, Arish***Semester Long Project***Kaustabh Joshi***Major Industrial Project***PHP Back end development, GEMS and Being Citizen***B.Tech(ITMI)-2016***Rohan Bhardwaj***Major Industrial Project***Legally Updated***B.Tech(ITMI)-2016***Chetan Raghav, Prince Soni, Rupal Gupta, Yashasvi Khanna***Summer Internship Project***Online Help Desk***B.Tech(ITMI)-2016***Virtual reality in different aspects with multimedia applications***B.Sc. Hons. (Comp. Sci.)-2013***Cheshta Mittal, Komal Sharma***Research Work Project***Image Steganography***B.Sc. Hons. (Comp. Sci.)-2013***Shobha***Research Work Project***Publications Profile**

- Anjani Kumar, Pintu Kumar, Sai Yash & Rohit Sharma. Analytics Of Indian English News Articles Through Deep Learning. Journal of Mathematical Sciences & Computational Mathematics, Vol.4, No.3, April 2023; 345-353. (ISSN: 2688-8300 (Print)); (ISSN: 2644-3368 (Online)) [Citation: 0, Impact Factor: NA]
- Verma AK, Dixit VS. Collaborative filtering-based recommendations against shilling attacks with particle swarm optimiser and entropy-based mean clustering. International Journal of Information and Computer Security. 2023; 20(1-2): 133-44. (ISSN: 1744-1765) [Citation: 0, Impact Factor/Cite Score: 1.0]
- Verma AK, Dixit VS. FRRS: Facial Recognition based Recommender System for handling Push and Nuke Attacks. METSZET JOURNAL. 2022; 7(12): 388-395. (ISSN: 2061-2710) [Citation: 0, Impact Factor: 5.3]
- Anjani Kumar Verma, Veer Sain Dixit. SRSPIA: Security Based Recommender System Against Profile Injection Attack. International Journal of Engineering Trends and Technology, 2021, 69(3), 219-228. (ISSN: 2349-0918) [Citation: 1, Impact Factor/Cite Score: 0.5]
- Mittal B, Verma AK, Bagai S. A Study of Crime in India Through Statistical Analysis. In ICT for Competitive Strategies 2020 May 5 (pp. 361-367). CRC Press. (ISBN: 9781003052098) [Citation: 0, Impact Factor: NA]
- Anjani Kumar Verma and Veer Sain Dixit. An outlier accuracy improvement in shilling attacks using ksom. In Intelligent Communication, Control and Devices 2020, (pp. 353-365). Springer, Singapore. (ISSN: 21945357); (ISBN: 978-981138617-6) [Citation: 1, Impact Factor: NA]
- Anjani Kumar Verma and Veer Sain Dixit. A Comparative Evaluation of Profile Injection Attacks. In Advanced in Data and Information Sciences 2019, (pp. 43-52). Springer, Singapore. (ISSN: 23673370) [Citation: 1, Impact Factor: NA]
- Anjani Kumar. Review of Comparative Evaluation: Image Steganography. International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Volume 2, Issue 5, September-October 2017. (ISSN: 2456-3307) [Citation: 0, Impact Factor: NA]
- Anjani Kumar Verma and Girish Chandra. A Review Aspect on Digital Watermarking. Conjugative Management, Library Information Science, Social Science and Technology for Virtual World, January 2017. (ISBN: 978-1- 63535-633-5) [Citation: 0, Impact Factor: NA]
- Anjani Kumar Verma and Girish Chandra. A Study on Market Return for an Investor: Comparative Analysis of BSE and SSE. International Journal of Research & Development in Technology and Management Science –Kailash, Volume - 22| Issue 6 | 2016 | ISBN - 1-63102- 468-X; European Article Number [EAN] - 978-1-63-102468-9 [Citation: 0, Impact Factor: NA]
- Anjani Kumar Verma. A Review on classification based approaches for Steganalysis Detection. International Journal of Computer Application Technology and Research, Volume 3- Issue 7, 439-445, July 2014. (ISSN: 2319-8656) [Citation: 1, Impact Factor: NA]

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| <ul style="list-style-type: none"> • Anjani Kumar Verma. A Non-Blind Steganalysis through Neural Network Approach. International Journal of Multidisciplinary Consortium, Volume-1, Issue-1, June 2014. (ISSN: 2309- 073X) [Citation: 6, Impact Factor: NA] • Anjani Kumar Verma. Steganalysis Detection through Statistical Features. Innovation Practices in Information Technology & Operation Management, January 2014. (ISBN: 978-81-906991-9-7) [Citation: 1, Impact Factor: NA] | |
| Paper Presentations | |
| <ul style="list-style-type: none"> • An Accuracy Improvement in Facial Verification through Siamese Neural Networks, 4th National Conference on Recent trends in IOT, Machine learning, Artificial Intelligence and its Applications (NCRIMA 2023), Bhopal, India, April 24-25, 2023, IEEE. • An Earthquake prediction through BNN, International Conference On Recent Advancement and Innovation In Engineering & Technology (RAIET – 2023), Lucknow, India, February 24-25, 2023, IEEE. • An Outlier Accuracy Improvement in Shilling Attacks Using KSOM, The 3rd International Conference on Intelligent Communication, Control and Devices (ICICCD). Dehradun, India, 23rd - 24th Dec 2018, Springer. • A Comparative Evaluation of Profile Injection Attacks, International Conference on Data and Information Systems (ICDIS). Amarkantak, India, 17th - 18th Nov 2017, Springer. • A Review Aspect on Digital Watermarking, International Conference on Conjugative Management, Library Information Science, Social Science and Technology for Virtual World (ICCLIST). Delhi, India, 15th Jan 2017. • Steganalysis Detection through Statistical Features, Conference on Innovative Practices in Information Technology and Operations Management (INNOVATIONS). New Delhi, India, 17th Jan 2014. | |
| Research Projects (Major Grants/Research Collaboration) | |
| <ul style="list-style-type: none"> • Co-Principal Investigator, Innovation project, Translating “Lilavati of Bhaskara” in the realm of present Mathematics Curriculum funded by Delhi University, 2015-2016. | |
| Awards and Distinctions | |
| <ul style="list-style-type: none"> • Faculty Start Up Grant, University of Delhi, 2015. • Awarded UGC NET in Computer Science & Applications, 2012. • Honour Appreciation from DUCS - SANKALAN Technical Fest in Department of Computer Science, University of Delhi, as an Event Coordinator of Technospeak, 2010. • Secured 3rd rank in B. Sc. (Hons.) Computer Science in PGDAV College, 2009. • Honour Appreciation from CS- Xenium Technical Fest in PGDAV College, University of Delhi, as an Event Coordinator CANVAS- Web Designing, 2008. • Secured 3rd rank in Science Fair Zonal Exhibition, 2003. • Won Appreciation in Writing and Painting competition, 2002-2003. | |
| Association With Professional Bodies | |
| <ul style="list-style-type: none"> • Member - Association of Computing Machinery (ACM) • Member - The Institute of Electrical and Electronics Engineers (IEEE) | |
| Other Activities | |
| Faculty Development Programme <i>Recent Trends & Challenges in Intelligent System and Machine</i> | Amity School of Engineering & Technology, Amity University, Patna, India <i>25th - 29th July 2022</i> |
| Workshop: AI for Computational Social Systems <i>Computational Social Systems, NLP and related areas both from industry and Academic</i> | IITD, Delhi, India <i>26th - 27th Nov 2021</i> |
| Faculty Development Programme <i>Academic Writing for Research</i> | TLC, Ramanujan College, University of Delhi, India <i>11th - 17th Oct 2021</i> |

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| Refresher Course <i>Next Generation Technologies</i> | TLC, Ramanujan College, University of Delhi, India 29 th June - 13 th July 2021 |
| Faculty Development Programme <i>Creation and Development of MOOCs while managing Online Classes</i> | Keshav Mahavidyalaya, University of Delhi, India 24 th - 31 th Aug 2021 |
| Webinar: Managing References Made Easy Using Mendeley <i>Researcher Academy On Campus provides the benefits of free Mendeley Reference Manager</i> | Miranda House, University of Delhi, India 27 th July 2021 |
| Webinar: Are Digital Innovation Opportunities around the Corner? <i>What, Where and How can these innovate?</i> | CIC, University of Delhi, India 8 th May 2020 |
| Workshop: Robotics by EYANTRA <i>Applications and Approaches</i> | IIT Bombay, Mumbai, India 7 th - 8 th Jan 2020 |
| Refresher Course <i>IDC Computer Application</i> | HRDC, DAVV, Indore, MP, India 14 th Nov - 4 th Dec 2018 |
| Workshop: IDA Connect by UK Companies, CIET, NCERT, CBSE and EQFI <i>Transforming Teaching-Learning thorough Big Data Analysis</i> | DIDAC, Delhi, India 4 th - 6 th Oct 2018 |
| Orientation Course <i>OR-91</i> | CPDHE, University of Delhi, India 21 st Nov - 19 th Dec 2017 |
| Seminar: Embedded Software Safety & Security <i>Safe and Secure Embedded Systems Development</i> | LDRA Academic Alliance Program (LAAP), Delhi, India 13 th Oct 2017 |
| Seminar: Bayesian Networks- AI for Research, Analytics, and Reasoning <i>Exploring AI for Complex problems with Tools</i> | Bayseia, USA, LLC 20 th Sep 2017 |
| Workshop: FICCI-IPO Awareness Program on Intellectual Property Rights (IPR) <i>National IPR policy and its importance in socio-economic development for India</i> | FICCI, Govt. of India, Delhi, India 15 th Sep 2017 |
| Workshop: How to Write and Publish Scholarly Articles <i>Publication Ethics</i> | JMI & Springer Nature New Delhi, India 24 th Aug 2017 |
| Workshop: Technology & Innovation Management- Key to effective Commercialization <i>Technology Development and Commercialization</i> | BCIL, New Delhi, India 21 st Feb 2017 |
| Workshop: Big Data Analytics (WBDA-2017) <i>Big Data Challenges and Issues</i> | SCSS, Jawaharlal Nehru University, New Delhi, India 17 th – 18 th Mar 2017 |
| Workshop: HPC Code Modernization (Parallelization) <i>Technology explained by Wipro Limited</i> | Dept. of Computer Science, University of Delhi, India 15 th Oct 2016 |
| Workshop: Robotics <i>Introduction to Robotics</i> | Cluster Innovation Centre, University of Delhi, India 14 th – 15 th Sep 2015 |
| Faculty Development Programme <i>Data Mining and Big Data Analytics: Concepts, Techniques, Tools and Research Directions</i> | DIAS, GGSIP University, Delhi, India 13 th -14 th June 2014 |

| Events Organization: Conferences/Workshops/Seminars |
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| <ul style="list-style-type: none"> • Organizing Member, Seminar on National Seminar on Innovation in Higher Education through PPP Model (for effective implementation of NEP 2020) held in Cluster Innovation Centre, University of Delhi from 13th-15th March 2023. • Faculty Coordinator, Workshop on Game Development held in online mode in Cluster Innovation Centre, University of Delhi on 4th June 2022. • Faculty Coordinator, Workshop on Ethical Hacking & Cyber Security held in Shyama Prasad Mukherji College, University of Delhi on 13th - 14th March 2014. |

Conferences/Workshops/Seminars/Webinars Achievements and Awards

- **Jury Member**, National Level **Website Development Competition** under SPECTRA 2021 organized by Gujranwala Guru Nanak Khalsa College, Civil Lines, Ludhiana, Punjab, India. 25th June 2021.

Invited Lectures/Talks

- **Resource person** for Technical Session, Webinar on **Technological advancements of physics in artificial intelligence** organized by Department of Physics, GGN Khalsa College, Civil Lines, Ludhiana, Punjab, India. 7th December 2021.
- **Resource person** for Technical Session, UGC Sponsored Two-day National Seminar on **Changing Business Environment in India: Challenges and Opportunities** organized by Department of Commerce, Shyama Prasad Mukherji College, University of Delhi. 28th - 29th February 2020.

Academic Projects

Image Steganalysis

- Image processing for detecting data into it.
- Extracting the message from stego images from different NN techniques.

Prof. Punam Bedi

Digital Image Steganography

- Image processing for hiding data into it.
- Hiding message into cover images with neural network approach.

Prof. Punam Bedi

File System Development

- Designed and developed a file management system for Unix based structure.
- Creation of text files in it.

Dr. Harmeet Kaur

Mini database- Mydbms Development

- Implementation of Mydbms system using Netbeans6.5 IDE.
- Different schemas for general purposes.

Dr. Harmeet Kaur

Student Record System

- Managing the student activities in college.

Dr. Akansha Vats

Multimedia and VR Support for Direct Communication of Designers

- Covering the aspects of virtual reality with multimedia.

Dr. Veenu Bhasin

Skills

- **Programming Languages:** C, C++, PHP, Java, Python, HTML/CSS, Java Script.
- **Platforms and Tools:** Windows, Linux, Dreamweaver, NetBeans IDE, MATLAB, Office365, Google-Meet, Google-Classroom, Zoom app, Moodle Cloud, R Studio.
- **AI Frameworks:** Scikit-learn.
- **Big Data Frameworks:** Hadoop, Weka, RapidMiner.

Anjani Kumar
Signature of Faculty Member

(Updated in August, 2023)