Shivaji College Faculty Details Proforma

Title	Dr.	First Name	Krishan Kant Singh	Last Name	Gautam	Photograph

Designation	Assistant Professor	
Address	Department of Computer Science Shivaji College, University of Delhi Ring Road, Raja Garden New Delhi- 110027.	
Office Phone No.		
Residence	011-22611081	
Mobile	9013270573,9013270579	
Email	dr.kksgautam@gmail.com, kksgautam@shivaji.du.ac.in	
Web-Page		
Educational Qualifications	Ph.D., M. Tech (CSE), MCA	

Degree	University/Institute	Year
Ph.D.	Department of Computer Science, Jamia Millia Islamia (A Central University), Delhi	2024
M.Tech (CSE)	USIT, Guru Gobind Singh Indraprastha University, Delhi	2008
MCA	IMR, Ghaziabad, UPTU Lucknow	2005
Graduation	Zakir Hussain College (Day), University of Delhi	2002
Any Other Qualification	UGC-NET (2012) GATE (2005 and 2006)	

Career Profile

1. Since February 19, 2024: Assistant Professor (Regular), Department of Computer Science, Shivaji College (University of Delhi), Raja Garden Delhi.
2. July 25, 2014 to February 17, 2024: Assistant Professor (Ad hoc), Department of Computer Science, Shivaji College (University of Delhi), Raja Garden Delhi.
3. January 09, 2013 to July 24, 2014: Assistant Professor (Ad hoc), Department of Computer Science, Rajdhani College (University of Delhi), Raja Garden Delhi.
4. Aug 03, 2010 to Jan 8, 2013: Assistant Professor Department of Computer Science and Engineering HMR Institute of Technology & Management is an established self-financed Engineering College affiliated to **Guru Gobind Singh Indraprastha University, Delhi,** Hamidpur, Delhi-110036.
5. Aug 04, 2008 to July 31, 2010: **Sr. Lecturer,** Department of Computer Science & Engineering, H.R. Institute of Technology is an established self-financed Engineering College affiliated to **UP Technical University, Lucknow.** The College is ISO certified.

Administrative Assignments

Member of NAAC Committee.
Member of IQAC Committee.
Member of Fee Concession Committee.
Member of NSS Committee.
Member of Cultural Committee.
Member of Canteen Committee.
Mentored students in organizing departmental technical festivals etc.
Member of Grievance Redressal Cell (Admissions).

Areas of Interest/Specialisation

Computer Networks
Internet of Things (IoT)
Information Security
Cryptography and Network Security
Data Base Management Systems.
Machine Learning & Deep Learning.

Subjects Taught

Data Analysis and Visualization Using Python.
Computer System Architecture
Computational Skills
Computer Networks and Internet Technologies
Information Security and Cyber Laws
Introduction to Database Systems

Innovation Project/Research Projects (Major Grants/Research Collaboration)

Publications Profile (*Research Papers/Books)*

1. Krishan Kant Singh Gautam, C.S. Rai **"Advancements of QoS for IEEE 802.11 Wireless LAN Technology"** in **NETIT²M'08**. pp 119-124, ISBN 978-81-906531-4-5.
2. Krishan Kant Singh, Arundhati Walia and Nitin Gupta **"Secured and Improved Reactive Routing Protocols for Mobile Ad Hoc Networks"** in "National Journal HRGI Journal of Research, Vol 1 No. 1 **Maiden Issue July- December 2009**, pp 152-156, **ISSN 0976-6642.**
3. Rajneesh Kumar, K.K.S. Gautam **"Asymmetric Key Management in Wireless Ad-hoc Network: A Survey"** in International Journal for Research in Applied Science & Engineering Technology **(IJRASET)** Vol. No 2, Issue VII July, 2014, **ISSN No 2321-9653**
4. Krishan Kant Singh, Arundhati Walia and Nitin Gupta **"A Survey of QoS for IEEE 802.22 WRAN Technologies"** in International Journal for Research in Applied Science & Engineering Technology **(IJRASET)** Vol. No 3, Issue VIII August, 2015, **ISSN No 2321-9653.**
5. Kamal Kumar Ranga, Krishan Kant Singh Gautam et al. **"Transforming Business Requirements into IT Application Solution and Business Implementation"**, INDIACom-2017, IEEE International Conference on Computing for sustainable Development, March 1-3, 2017, **ISBN 978-93-80544-24-3.**
6. Kamal Kumar Ranga, Krishan Kant Singh Gautam et al. **"Hyper Spectral Imaging: New Era of Imaging"**, INDIACom-2017, IEEE International Conference on Computing for sustainable Development, March 1-3, 2017, **ISBN 978-93-80544-24-3.**
7. Raju, Krishan Kant Singh Gautam, Rajendra Kumar "Machine Learning Based IoT Security System for COVID - 19", International Journal of Advanced Science and Technology, Vol.29 No 7s (2020), pp. 5838-5853, ISSN: 2005-4238
8. Krishan Kant Singh Gautam, Rajendra Kumar, Subodh Kumar "A Survey on Image Encryption Techniques Enabled with Internet of Things (IOT). *Design Engineering*, Issue: 6 (2021), pp 205 – 213 ISSN: 0011-9342 Retrieved from http://www.thedesignengineering.com/index.php/DE/article/view/1953.
9. Krishan Kant Singh Gautam, Rajendra Kumar, Deena Nath Gupta "Challenges, Attacks, QoS, and Other Security Issues for An IoT Environment" in international conference on "Advancement in Computational and Computer Technologies" (ICACCT-2021) organized by Department of Computer Science and Engineering in Collaboration with UCRD, Chandīgarh University, Gharuan, India, during 30-31 October 2021.
10. Krishan Kant Singh Gautam, Rajendra Kumar "IoT and object identification enabled Smart Home Security System" *International Journal of Mechanical Engineering*. Vol. 7 (Special Issue 3, Jan.-Feb. 2022). ISSN: 0974-5823 pp. 16-23.

11. Krishan Kant Singh Gautam, Rajendra Kumar et.al "Machine Learning Algorithms for 5G and Internet-of-Thing (IoT) Networks" 2022 IEEE Sponsored Second International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies (ICAECT 2022) held at the Department of Electrical and Electronics Engineering, Shri Shankaracharya Technical Campus (SSTC), Bhilai, Chhattisgarh, India during 21 - 22, April 2022. ISSN 978-1-6654-1120-2/22, *DOI: 10.1109/ICAECT54875.2022.9808005.*

12. Krishan Kant Singh Gautam, Rajendra Kumar "Security Awareness Model for Artificial Intelligence and Internet of Things". International Journal on Recent and Innovation Trends in Computing and Communication, vol. 10, no. 12, Dec. 2022, pp. 203-10, https://ijritcc.org/index.php/ijritcc/article/view/5936.

13. Krishan Kant Singh Gautam, Rajendra Kumar, Rakesh Yadav and Preeti Sharma, "Investigation of the Internet of Things (IoT) Security and Privacy Issues," 2023 5th International Conference on Inventive Research in Computing Applications (ICIRCA), Coimbatore, India GB, 2023, pp. 1489-1494, doi: 10.1109/ICIRCA57980.2023.10220814.
https://ieeexplore.ieee.org/document/10220814/authors.

Book
1. **Krishan Kant Singh Gautam, Rakesh Yadav (2022) "Python Programming"** Scientific International Publishing House (SIPH), ISBN No: 978-93-5625-029-1 (first edition).

Conference/Seminar/Faculty Development Programme/Workshop

1. One-week *AICTE Training And Learning (ATAL) Academy* Faculty Development Program on Sustainable Intelligence: Harnessing AI/ML for a Better Tomorrow at NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY from 08/01/2024 to 13/01/2024. https://drive.google.com/file/d/1TGp5jStB-PNIK60Zt-rOhRiNaVFjdCu1/view?usp=drive_link.

2. One week faculty development program on "Exploring Data Science: Foundation to Advanced Analysis" from July 24 -28 2023 organized by Amity School of Engineering & Technology, Amity University, Patna. https://drive.google.com/file/d/1MFf3sdlUHY5isMgAGX4tLkuTdCidmrU1/view?usp=drive_link.

3. 10 day Online Faculty Development Programme on " Artificial Intelligence and Machine Learning Applications in Engineering "organized by Electronics & ICT Academy, NIT Warangal, Telangana in Association with Department of CSE, Bhoj Reddy Engineering College for Women, Hyderabad , Telangana, from 20th February -1st March 2023. https://drive.google.com/file/d/15CXjzvUFS_zvYXCoes8yKT-YjO2W1yBk/view?usp=share_link..

4. Presented the research paper entitled "A Data Security Model for Internet of Things applications" AICTE sponsored in International Conference on Advanced Communication Control & Computing Technology (ICACCCT'22) organized by SIMATS Scholl of Engineering Saveetha Institute of Medical & Technical Sciences, Chennai, Tamil Nadu, India during June 28-30 2022. https://drive.google.com/file/d/19kg0t4Hz-Z8RoAjOktyXeNjcac9rkO3y/view?usp=share_link.

5. Presented the research paper entitled "**Machine Learning Algorithms for 5G and Internet- of-Thing (IoT)Networks**" in the 2022 IEEE Sponsored Second International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies (ICAECT 2022) held at the Department of Electrical and Electronics Engineering, Shri Shankaracharya Technical Campus (SSTC), Bhilai, Chhattisgarh, India during 21 - 22, April 2022. https://drive.google.com/file/d/1BdqTNkJmLB1bSqm6NScDWsg68AvAsjrA/view?usp=share_link.

6. Presented the research paper entitled "Challenges, Attacks, QoS, and other Security Issues for an IoT Environment" in International Conference" Advancement in Computation and Computer Technologies" (ICACCT-2021) organized by Department of Computer Science

& Engineering in Collaboration with URCD, Chandigarh University, Gharun, Punjab, India during Oct 30-31, 2021. https://drive.google.com/file/d/1QruF9XA_nmrvx4BriIyU0Waj4rEFLWnm/view?usp=share_link.

7. Served as a Resource person in Microsoft Teams Training for College Faculty and Students, organised by E-Learning Cell, Shivji College, in the academic session 2020-21.
8. One day workshop on "IoT (Internet of Things)" organised by Department of Computer Science, on October 01, 2019.
9. Two-day international E-Summit organised by The Entrepreneurship Development Cell, Shivaji College, University of Delhi, on February 14-15, 2019.
10. Served as Resource Person in the INSPIRE (Innovation in Science Pursuit for Inspired Research) Science Camp held from July 16-20, 2018, at Shivaji College, University of Delhi, organised by Department of Science & Technology (DST), Govt. of India.
11. One week Faculty Development Programme on "Horton Hadoop Developer" organized by Department of Computer Science in association with ICT Academy from 21-25 May, 2018.
12. Three-day workshop on "Cyber Security" organized by Department of Electronics under the aegis of DBT Star College Program held at Deen Dayal Upadhyaya College, University of Delhi during April 13-15, 2018.
13. One day workshop on "Advanced Artificial Intelligence Techniques" organized by Department of Computer Science, Jamia Millia Islamia, New Delhi-110025, on February 24, 2018.
14. One day workshop on "Computer Forensic" organized by Centre of Excellence in Cyber Systems and Information Assurance, Indian Institute of Technology Delhi (IIT Delhi) on October 13, 2017.
15. One day workshop on "Women in Science: A Career in Science" organized by Science Foundation, Deen Dayal Upadhyaya College on September 6, 2017.
16. Two-day International Workshop on "Big Data Analytics (WBDA-2017)" organized by School of Computer and Systems Sciences Jawaharlal Nehru University, held on March 17-18, 2017.
17. Served as a TPC member on special session on "Big Data and Current Technology" during INDIACom-2017; 11th INDIACom; 2017 4th International Conference on "Computing for Sustainable Global Development" organized by BVICAM, New Delhi.
18. Two-day workshop on "Foundation Course (Information Technology)" organized by Centre for Professional Development in Higher Education University of Delhi, held on January 18-19, 2014.
19. One day workshop on "VIRTUAL LAB" organized by IIT-Delhi, held at Ganga Institute of Technology and Management on March 20, 2013.
20. One day FDP on "HARNESSING BEHAVIOURAL SKILLS IN ACADEMIC" organized by Department of Management, HMR Institute of Technology & Management on September 12, 2012.
21. Two day "International Telecommunication Union Workshop" on "Standards and Intellectual Property Rights (IPR) Issues" organized by HMR Institute of Technology and Management, Hamidpur, Delhi on December 19-20, 2011.
22. One day workshop on "Workshop on Benchmarking in Quality Education" organized jointly by HMR Institute of Technology & Management, Delhi and Institute of Information Technology & Management, New Delhi held on April 30, 2011.

Research Guidance (*Supervision of Doctoral Thesis/Dissertations*)

Awards and Distinctions

Memberships
1. https://vidwan.inflibnet.ac.in/profile/473282   2. http://scholar.google.co.in/citations?user=63Oesx8AAAAJ   3. http://www.scopus.com/authid/detail.url?authorId=57646309700   4. http://www.orcid.org/0000-0003-0394-5344

Patents
1. *PATENT Published* Entitled "**VIRTUAL VISION SYSTEM FOR VISUALLY IMPAIRED PEOPLE AND THEREOF**", 2nd October 2020, Application Number **202041038731.** https://drive.google.com/file/d/1uaResEr1cFAYPRiV8z0UGk4U1fCNHuRk/view?usp=share_link   2. Krishan Kant Singh Gautam, Rajendra Kumar, Rakesh Yadav PATENT Published entitled "**A SYSTEM FOR DETECTING THREATS IN IOT NETWORKS AND METHOD THEREOF**", December 30, 2021, Application Number: **202141061667.** https://drive.google.com/file/d/12izfgHAj9ZTa-mrUntLWlh1GCnzJhDWP/view?usp=share_link   3. Krishan Kant Singh Gautam, Kapil Kumar patent granted entitled "A **TWO-DIMENSIONAL UNIFORM LINEAR ARRAY-BASED MULTIPLE SIGNAL CLASSIFICATION SYSTEM FOR THE DIRECTION-OF-ARRIVAL ESTIMATION",** March 21, 2023. Patent No. 202023100675. https://drive.google.com/file/d/1eULGkag6lIEyCA80-4umhU2ZtQ8E3hvl/view?usp=share_link

Cultural/Extracurricular Activities

(Dr. K.K.S. Gautam)