

DR. SHEETAL SHARMA
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Department of Information Technology
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DOB: 24th October 1980



Educational Qualifications

Ph.D. in Computer Science

Department of Computer Science and Engineering Chitkara University, Rajpura (Punjab) – 140401, India, (2023) PhD Thesis: *Solution-Based Recommendation Model for Device Monitoring in Smart Day-Care*, Ph.D. Supervisor: Dr. Kamali Gupta, Co-Supervisor: Dr. Deepali Gupta

M.Sc.-IT: IT Department GGDSD College Sector 32C Chandigarh, Panjab University Chandigarh, India (2002-2004)

Bachelor of Information Technology, Guru Nanak Dev University D.A.V college Amritsar. India (1999-2002)

Teaching/Research Experience

- July 2013- till date
Assistant Professor in IT Department, GGDSD College, Chandigarh.
Teaching all IT based courses at Graduate and Post-graduate level.
- 8 Plus years of experience in software development with Planning, Requirement Analysis, Design, Development, Testing, and Implementation of the projects in corporate sector:
Worked with M.S.I Systems (India) Pvt Ltd as Trainee programmer.
Worked with M.S.I Systems (India) Pvt Ltd as Software Engineer
Worked with Fiserv Pvt India as System Analyst.
- Software Development, Databases, AI, ML, IoT, Data Science

Areas of Interest

Publications

(Journal/Book Chapters)

Journal Publications:

S. Sharma, K. Gupta, D. Gupta, S. Rani, and G. Dhiman "An Insight Survey on Sensor Errors and Fault Detection Techniques in Smart Spaces," *Comput. Model. Eng. Sci.*, vol. 138, no. 3, pp. 2029-2059. 2024. <https://doi.org/10.32604/cmcs.2023.029997>

Sheetal Sharma, Kamali Gupta, Deepali Gupta, Sapna Juneja, Hamza Turabieh, Subhash Sharma, "SWOT: A Hybrid Hardware-Based Approach for Robust Fault-Tolerant Framework in a Smart Day Care", *Security and Communication Networks*, vol. 2022, Article ID 2939469, 16 pages, 2022. <https://doi.org/10.1155/2022/2939469>

Sharma, S., Gupta, K. and Gupta, D., 2021. Recommender System: A bibliometric analysis. In *IOP Conference Series: Materials Science and Engineering* (Vol. 1022, No. 1, p. 012057). IOP Publishing.

Sheetal Sharma, Kamali Gupta and Deepali Gupta, *The Amalgamation of Internet of Things and Recommender Systems*, Accepted for Publishing in *IOP Conference Proceedings: Journal of Physics*

Sheetal Sharma "e-learning and LMS: An initial inception" 2018 *Computer Apex HMV Jalandhar Vol 10 page no 18-26*

**Seminars/
Conferences/Symposiums
(Paper Presented)**

- Presented Paper on “Role of accreditation agencies in imparting quality education in India” in national Seminar on “Quality Assurance in Higher Education” on 2nd and 3rd Sept 2022, sponsored by National Assessment and Accreditation Council, India & TATA Tele Business Services.
- Presented a paper on Cloud Computing, Internet of Things and Recommender System: The Future Blend in IT seminar at Post Graduate Department of Information Technology, Goswami Ganesh Dutta Santana Dharma College Sector 32-c Chandigarh on 24th march, 2022.
- Attended Webinar on “Small Libraries, Great Impact” on 1st Oct 2021, organized by Panjab University.
- Attended webinar on “Emerging IT programs – Python and Machine Learning, Web Application Development with PHP & JAVA” hosted by SPIC on 8th June, 2020
- Attended 2 Days Online National Lecture Series on "Gamification, Machine Learning, IoT & Security" from 25 May-26 May, 2020 organized by PG Department of Information Technology GGSDS College, Chandigarh
- Attended National Seminar on “Business Growth and Corporate Sustainability” held on 17th Jan, 2014 at GGSDS College, Chandigarh
- Attended National Seminar on “Emerging Trends in Information Technology: Challenges & Strategies” held on 31st Jan, 2014 at GGSD College, Chandigarh
- Attended National Seminar on “Recent Advances in Material Sciences” held on 31st Jan, 2014
- Attended National Seminar on “Goods and Services Tax (GST) held on 20th Jan, 2018 at GGSDS College, Chandigarh
- Attended National Seminar on “Reforms to transfer India” held on 27th March, 2018 at GGSDS college, Chandigarh.

**Refresher
Courses/Workshops/
Training Programmes**

- Attended 2 days workshop on “Navigating a career in Computer Graphics and Vision: Skills, Innovative Techniques, and Role of AI” organized by Chitkara University Research and Innovation Network (Adv Res), Chitkara University, Punjab on 13th November, 2024.
- Attended 2 days workshop on “Unlock the power of MATLAB: A Hands-on introduction to Scientific Computing” organized by PhD Programs, CURIN, Chitkara University, Punjab on Aug 23rd -24th , 2024.
- Completed Advance Course on Predictive Analytics using IBM SPSS Modeler in Dec 2022.
- Attended 2 days FDP on “Adoption of NEP modules in Academic Curriculum” organized by CUIET, Chitkara University, Punjab in Dec 2022.
- Completed 2 days course on Data Science using Python, conducted by National Institute of Electronics & Information Technology, Chandigarh in Oct 2022.
- Participated in two days’ workshop on Reference Management using Mendeley Software organized by Chitkara University Punjab in Oct 2022.
- Participated in 12 hours of FDP on Microsoft Azure AI Fundamentals, conducted by ICT Academy on 13th Jun 2022 to 18 Jun 2022.

- Attended one week FDP from 24th June to 30th June 2022 on “Guru-Siddhta: Advances in Teaching & Learning Pedagogies” under the aegis of DBT Star Scheme for colleges, at Hans Raj Mahila Maha Vidyalaya, Jalandhar.
- Participated in one-week Online workshop on “Data Analysis using python for beginners” from 7th June 2020 to 12th June 2020 organized and conducted by Research Shiksha, India.
- Participated in two week online FDP on “Panel data Analytics with software applications” from 8th May to 21st May 2020, organized by Sri Aurobindo College of Commerce and Management, Ludhiana
- Participated in one week FDP on “Biological Data Analysis & Data Science” organized by Rashtriya Uchchar Shiksha Abhiyan (RUSA), Director of Higher Education (DHE), Chandigarh Administration held from Feb 27, 2020 to Mar 04, 2020 at GGSDS College Chandigarh.
- Participation in workshop on “Curriculum Development for Educators” a skill enhancement initiative conducted at MCM DAV College of Women, Chandigarh.

Patents

- Industrial Design has been published and granted in Patent and Design Journal number: 20/2022 with Application Number and Industrial Design Number :343462-001 and name "**ADJUSTABLE MOBILE STAND**", Under The Office of the Controller General of Patents, Designs and Trade Marks generally known as the Indian Patent Office (Department for Promotion of Industry and Internal Trade).
 - Utility patent filed for application titled "**RECOMMENDATION MODEL FOR MONITORING OF DEVICES IN IOT ENABLED DAYCARE**" having Application No. 202311053879, Under the Office of the Controller General of Patents, Designs and Trade Marks generally known as the Indian Patent Office (Department for Promotion of Industry and Internal Trade).

Certifications

- Certified for IBM SPSS Modeler – Advance Course.
- MCTS – Microsoft Certified Technology Specialist in Dot Net Framework.
- MCP – Microsoft Certified Professional.
- Retail Banking from Expert rating.

Administrative Experience

Successfully mentored, motivated and enabled students to get certified in Microsoft Data Analyst Associate (DA-100) under Honeywell Student Empowerment Program, Microsoft, held from 20 February 2023 to 09 March 2023.

Dr. SHEETAL SHARMA