

Curriculum Vitae

Dr. Sonam Gupta

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Objective

I aspire to be an active team member of an organization which provides a highly competitive and productive teaching and research environment where I should experiment, innovate and implement my own ideas for the growth of the organization.

Qualification

- **Ph.D** in Engineering and Technology from Suresh Gyan Vihar University, Jaipur (2018)
- **M.TECH.** in Computer Science & Engineering with **8.99**(out of 10) **CGPA** from SRM University, Chennai.
(July-2008 To June-2010)
- **B.E.** in Information Technology with 80% from Mody Institute of Technology & Science, Lakshargarh, Rajasthan University, Rajasthan
(Aug-2003 To June-2007)
- **12th** from Smt. Brahma Devi, Saraswati Balika Vidhya Mandir, Hapur, CBSE Senior School Certificate Examination, Specialization: Science (Physics, Chemistry, Mathematics, Computer) with 82.62% in 2003.
- **10th** from Seventh-day Adventist School, Hapur, ICSE Senior School Certificate Examination (Class X) with 82.68% in 2001.

Outside Agency Consultancy Projects as PI:

1. A project of Rs. 11 lakhs (approx) sanctioned by Council of Science and Technology.
2. A project of Rs. 3 Lakhs sanctioned by AKTU under TEQIP-III.

Achievements/Awards

- Cash Award of Rs-5000/ for result in Distributed System for final year in **2012-13**.
- Cash Award of Rs-10000/ for Development of “Departmental Work Automation Software” for AKGEC in **2014-15**.
- Letter of Appreciation for development of “Question bank Portal” for APJAKTU, Lucknow in session **2015-16**

- Cash Award of Rs-15000/ for Development of “Library Automation System” for AKGEC and AKGIM in session **2015-16**.
- Cash Award of Rs-10000/ for result in Software Engineering for second year in **2018-19**.
- Cash Award of Rs-7000/- for publishing paper in IJEAT.
- Cash Award of Rs-10000/ for result in Distributed Systems for final year in **2019-20**.

Work Experience (more than 11 Years)

- Associate Professor Ajay Kumar Garg Engineering College 01-08-2018 To till date
- Asst. Professor Ajay Kumar Garg Engineering College 11-07-2012 To 31-07-2018
- Asst. Professor Lord Krishna College of Engineering 25-01-2010 To 09-07-2012
- Lecturer Lord Krishna College of Engineering 08-08-2007 To 21-08-2008

M.Tech. Dissertation Guiding

- Guided **two** M.TECH. dissertation at AKGEC, Ghaziabad affiliated to APJAKTU, Lucknow.

1. Ms. Bhanu Verma

Title: A Neural Network based Hybrid Model for Depression Detection in Twitter.

Session: 2019-20

2. Ms. Vishwachi Choudhary

Title: Approach to find duplicate and near-duplicate clones in High Level Concept Code.

Session: 2016-17

Subjects

Data Compression, Object Oriented System, Introduction to Web Technology, Mobile Computing, Operating System, Multimedia System, Distributed System, Software engineering, Software Project Management, Computer Graphics.

Programming Skills

Languages: Java/J2ee, Servlet, Jsp, Jdbc, Java Script, Html, Sql, C++, C

Tools and IDE: NetBeans5.0, Eclipse, Textpad 5.0, Jdk 5/6/7

Web Server: Apache Tomcat 3.2/5.5 , Glass Fish

Database: Oracle 8/9,MySQL,Postgre,MongoDB

Operating System: Windows 98/2000/XP, Linux

Area of Specialization

Software Maintenance, Reverse Engineering, Machine Learning, Information Retrieval

Academic/Non-Academic Activities(Department/College Level)

Teach many subjects at graduate course per semester and handle many activities and tasks as assigned by department/organization:

- To identify and facilitate in conducting faculty development programs or conference.
- Evaluation, assignments, project work and exams for courses allotted by the department.

- Able to interact with industry/academia for guest lectures and seminars.
- Founder of Open Source Software Research and Development (OSS R&D) Centre.
- Worked as member of exam cell at college level.
- Develop and maintenance of Academic automation System for AKGEC and AKGIM (**5000 users**).
- DCS of examination committee in LKCE for university examinations(MMTU and GBTU).

Consultancy Projects:

Following consultancy projects have been developed by me as Principle Investigator in OSS R&D centre.

Project-Name	Client	Consultancy -Type	Start-Date	End-Date
E-Learning Portal	AKGEC	In-House	July-2012	May-2013
Departmental Work Automation	AKGEC	In-House	Jan-2013	May-2014
Library Automation System	AKGEC,LIBRARY	In-House	March-2013	May-2014
Library Management System	AKGIM,LIBRARY	Out-Side	July-2015	March-2016
Library Management System	AKGEC Skills ,LIBRARY	Out-Side	July-2016	March-2017
Question Paper Portal	APJAKTU,Lucknow	Out-Side	Sep-2015	Nov-2015
E-Health System	Mudgal Pvt. Ltd.	Out-Side	Sept-2016	Feb-2017
NBA Portal	AKGEC	In-House	March-2017	March-2019
Feedback Portal	AKGEC	In-House	April-2017	Nov-2017
Travel India-Guide.com Content Management and Template Update	Eternity Infosystem Pvt. Ltd., Delhi	Out-Side	August-2018	March-2019
Re-designing of website of Antrix Academy	Froyo Technologies Pvt. Ltd., Noida	Out-Side	August-2018	February-2019
E-Commerce Website	Froyo Technologies Pvt. Ltd., Noida	Out-Side	August-2018	February-2019

FDP/Workshop/Conference Attended / Organized

- **Member in TPC and Reviewer** in International Conference on Computer Vision and Robotics (CVR 2021) organized by Babu Banarsi Das University, Lucknow from 7-8 August, 2021.
- **Session Chair** in International Conference on Artificial Intelligence (ICAI-2021) organized by Artificial Intelligence Foundation Trust, India from 22-23 May, 2021
- **Publicity Chair** in International Conference on Artificial Intelligence (ICAI-2021) organized by Artificial Intelligence Foundation Trust, India from 22-23 May, 2021

- FDP on Applications of Machine Learning, 15-19 June,2021, organized by Shri Vishnu Engineering College for Women(A), Vishnupur.
- STTP on Data Science and Its Applications, 8-13 February,2021, organized by NIET, Greater Noida sponsored by AICTE.
- FDP on Artificial Intelligence, 1-5 February,2021, organized by RAMAKRISHNA MISSION VIVEKANANDA EDUCATIONAL AND RESEARCH INSTITUTE, COIMBATORE sponsored by AICTE ATAL Academy.
- **Organized** STTP on Data Science with Python (three phases), 2-7 November 2020, 7-12 December 2020, 14-19 December 2020 organized by AKGEC, Ghaziabad sponsored by AICTE.
- **Co-ordinator** of FDP on Blockchain & Its Applications, 10-14 August, 2020 organized by AKGEC, Ghaziabad.
- FDP on Recent Trends in Computer Science & IT, 13-17 July,2020, organized by Rajkumar Goel Institute of Technology, Ghaziabad.
- FDP on R, 7 days, 15-21 June, 2020, Chouksey Engineering College, Bilaspur (C.G) in association with spoken tutorials IIT Bombay.
- FDP on Human Values and Professional Ethics, 10 days, 20-29 Dec,2019, IIT, Kanpur
- **Organized** Conference on ITBT-2019, 2 days, 9-10 November,2019, AKGEC, Ghaziabad
- **Co-ordinator** of FDP on Android Application Development sponsored by AKTU, Lucknow under TEQIP-III from 4 Feb, 2019 to 8 Feb, 2019.
- **Co-ordinator** of FDP on Current Research Trends in Artificial Neural Networks sponsored by AKTU, Lucknow under TEQIP-III from 8 July,2019 to 12 July,2019.
- **Organized** FDP on Machine Learning and Data Analytics with Python in association with E&ICT, Roorkee from 4 Dec, 2018 to 8 Dec, 2018.
- FDP on Android App Development, organized by ABESIT, Ghaziabad sponsored by APJAKTU, Lucknow, 15-19 March,2018 (Five days)
- **Organized** Conference on ITBT-2018, 2 days, 9-10 March,2018, AKGEC, Ghaziabad.
- **Organized** FDP on Internet Of Things, 2 days, 9-10 February,2018, AKGEC, Ghaziabad.
- FDP on Human Values and Professional Ethics, 3 days, 14-16 March,2017, AKGEC, Ghaziabad
- FDP on Instrumentation and Automation with LabVIEW, 2 days, 9-10 Sep,2016, AKGEC, TIFAC CORE, Ghaziabad.
- FDP on "Advance Computer Network & Security", 5 days, 11-15 July, 2016, ABES Engineering College, Ghaziabad.
- **Organized** and attended National Conference-COMTECH-2016 at AKGEC, Ghaziabad, 1-2 April- 2016.
- Short term course on "Open Source Technologies through ICT" organized by NITTTR Chandigarh at AKGEC,Ghaziabad from 4-8 January 2016 (1 week).
- Short term course on "ICT" organized by NITTTR Chandigarh at AKGEC, Ghaziabad from 8-12 June 2015 (1 week).
- FDP on "Natural Language Processing", 2 days (30-31 Jan, 2015) at AKGEC, GZB.
- **Organized** and attended 3rd IEEE International Advance Computing Conference (IACC 2013) AKGEC, Ghaziabad, 22-23 Feb, 2013.

Publication: Book

- Dr. Sonam Gupta, Ms. Lipika Goel, Basics of Information Technology, Krishna Prakashan Pvt. Ltd., 2019-20.
- Dr. Sonam Gupta, Office Automation Tools, Krishna Prakashan Pvt. Ltd., 2018-19.
- Dr. Inderjeet Kaur, Ms. Sonam Gupta, Operating System(A Concept-based Approach), IK International Publishing House Pvt. Ltd, 2015-16

Publication: Journal

- [1] Kansal, Nancy, Lipika Goel, and Sonam Gupta. "Cross-domain sentiment classification initiated with Polarity Detection Task." EAI Endorsed Transactions on Scalable Information Systems 8.30 (2020): e1 indexed in **Scopus**.
- [2] Gupta, S., Goel, L., & Agarwal, A. K. (2021). A Novel Framework of Health Monitoring System. International Journal of Big Data and Analytics in Healthcare (IJBDAH), 2021 Jan 1, 6(1), 1-14 by IGI Global indexed in **ACM Digital Library** 10.4018/IJBDAH.20210101.oa1.
- [3] Kansal Nancy, Lipika Goel, and Sonam Gupta. "A Literature Review on Cross Domain Sentiment Analysis Using Machine learning." International Journal of Artificial Intelligence and Machine Learning (IJAIML) 10.2 (2020): 43-56 by IGI Global.
- [4] Gupta, S., Goel, L., & Agarwal, A. K. (2020). Technologies in Health Care Domain: A Systematic Review. International Journal of e-Collaboration (IJeC), 2020 Jan 1, 16(1), 33-44 indexed in **ESCI, Scopus, ACM Digital Library, UGC-Care List**.
- [5] Sonam Gupta, Vishwachi., Identification of File and Directory Level Near-Miss Clones For Higher Level Cloning, International Journal Engineering and Advanced Technology, 8(3): 257-262, Feb 2019 indexed in **Scopus**.
- [6] Choudhary V and Gupta S (2017). A novel approach in detecting code clones in Java using DFS. International Journal of Advanced and Applied Sciences, 4(5): 26-29, May 2017 indexed in **Thomson Reuters (ESCI)**, doi 10.21833/ijaas.2017.05.004.
- [7] Vishwachi and Sonam Gupta. Literature Survey of Software Clones. International Journal of Computer Applications 153(4):1-7, November 2016.
- [8] Sonam Gupta, Dr. P.C Gupta and Dr. Ripu Ranjan Sinha, —Clone-chunk algorithm for Non-Contiguous Clone Detection, in International Journal of Innovative Research in Computer and Communication Engineering 10.15680/IJIRCCE.2016.0402068, Volume 4 Issue 2 –February 2016.

- [9] Shashank Prabhakar, Sonam Gupta, — A Review on Code Clone Detection and Implementation, in International Journal of Innovative Research in Computer and Communication Engineering 10.15680/IJRCCE.2016.0402068, Volume 4 Issue 2 –February 2016.
- [10] Sonam Gupta and Dr. P. C Gupta, —A Novel Approach to Detect Duplicate Code Blocks to Reduce Maintenance Effort| International Journal of Advanced Computer Science and Applications(IJACSA), 7(4), 2016, indexed in **Thomson Reuters (ESCI), UGC-Care List**.
- [11] Sonam Gupta and Dr. P.C Gupta, —Algorithm to Detect Non-Contiguous Clones with High Precision, in International Journal of Innovations in Engineering and Technology, 215219 Volume 5 Issue 1 –February 2015.
- [12] Sonam Gupta and P C Gupta, —Literature Survey of Clone Detection Techniques| in International Journal of Computer Applications 99(3):41-44, August 2014.
- [13] Sonam Gupta and Dr. P.C Gupta, —A novel Framework to detect Non-Contiguous Clones|, International Journal of Software and Web Sciences, 7(1), December 2013- February 2014, pp. 38-41.
- [14] Sonam Gupta, Dr. P.C. Gupta, — Clones : A Survey, International Journal of Computer Science and Technology Vol. 3, Issue 3, July - Sept 2012.

Publication: Book Chapters

- [1] Goel, Lipika & Gupta, Sonam. (2020). Cross Projects Defect Prediction Modeling. 10.1007/978-3-030-25797-2_1 in Data Visualization and Knowledge Engineering, 2020 indexed in **Web of Science**.

Publication: Conferences (Inter National)

- [1] Neha Katiyar, Sonam Gupta, Arun Kumar Yadav, and Divakar Yadav. "Wavelet Tree ensembles with Machine Learning and its classification." 3rd International Conference on Smart and Intelligent Learning for Information Optimization (CONSILIO 2021) organized by SIET, Hyderabad, India and Consilio Research Lab, Tallinn, Estonia on July 09–10, 2021, In Journal of Physics: Conference Series, vol. 1998, no. 1, p. 012001. IOP Publishing, 2021 indexed in **Scopus**.
- [2] Praveen, Nida, Lipika Goel, and Sonam Gupta. "A systematic review on air quality monitoring and qualification systems." Recent Trends in Communication and Electronics (2021): 436-439 indexed in **Scopus**.
- [3] Verma Bhanu, Sonam Gupta, and Lipika Goel. "A Neural Network Based Hybrid Model for Depression Detection in Twitter." In International Conference on Advances in Computing and

Data Sciences, ICACDS 2020 (April 24-25, 2020) organized by Faculty of ICT, University of Malta Valletta, Malta.,pp. 164-175. Springer, Singapore, 2020, indexed in **Scopus**.

- [4] Bhanu Verma, **Sonam Gupta**, Lipika Goel, “A Survey on Sentiment Analysis for Depression Detection”, First International Conference on Automation, Signal Processing, Instrumentation and Control-iCASIC-2020 (February 27-28, 2020) organized by Vellore Institute of Technology indexed in **Scopus**.
- [5] **Sonam Gupta**, Lipika Goel, Shiwang Agarwal, Rishabh Aggarwal, Shashank Maheshwari, Sajal Gupta “Substantiation of Software Defect Prediction using Statistical Learning: An Empirical Study” In the Proceeding of 4th International Conference on Internet of Things: Smart Innovation and Usages (IoT-SIU 2019) 18-19 April, 2019 Krishna Engineering College, Ghaziabad, Uttar Pradesh, India, Technically Co-Sponsored by IEEE UP Section, Indexed in **IEEE Xplore digital library**.
- [6] ArunYadav, Divakar Yadav, Sonam Gupta, Dharmendra Kumar, Pankaj Kumar, “Online Food Court Payment System using Blockchain Technology”, 5th IEEE UP Section International Conf. on Electrical, Electronics and Computer Engineering (**UPCON-2018**) on 2-4 November,2018.
- [5] Sonam Gupta, Deepak Rai, Arun Kumar Yadav and Divakar Yadav, “Customization and Implementation of KOHA in Academic Institutions”, 5th International Symposium on Emerging Trends and Technologies in Libraries and Information Services (ETTLIS) on 21-23 February, 2018, indexed in **IEEE**.
- [6] Vishwachi ,Sonam Gupta, " Detection of near miss clones using metrics and abstract syntax trees ". International Conference on Inventive Communication and Computational Technologies (IEEE) (2017) on 10-11 March, 2017 indexed in **IEEE**.
- [7] Dharmendra Kumar, Diwakar Yadav, Arun Yadav , Sonam Gupta. " Geographical Health Analysis using wavelet tree ". International Conference on Advances in Computational Techniques and Research Practices, NIET Gr. Noida (2017) on 3-4 February,2017.

Publication: Conferences(National)

- [1] Nancy Kansal, Lipika Goel, Sonam Gupta, “A Literature Review on Cross Domain Sentiment Analysis Using Machine learning Method”, ITBT 2019 on 08-09 November,2019.
- [2] Bhanu Verma, Sonam Gupta, Lipika Goel, “A Study on Sentiment Analysis for Depression Detection”, ITBT 2019 on 08-09 November,2019.
- [3] Sonam Gupta, Devanshi Khare, Diksha Gupta, “ Improved Image Stenography using LSB”, Intelligent Computing Communication and Data Science, HBTU Kanpur, 29-30 November,2018.
- [4] Vishwachi, Sonam Gupta, Arun Yadav" Re-order Code Clone Detection at File level ". ITBT 2018 on 09-10 March,2018.

- [5] Sonam Gupta, Arun Yadav " Artificial Neural Networks-A Study". ITBT 2018 on 09-10 March,2018.
- [6] Nishtha Negi, Prashant Kumar, Arun Yadav, Sonam Gupta," Improved method of Image Stegnography using 2D HAAR DWT ". ITBT 2017 on 17-18 February,2017.
- [7] Vishwachi, Sonam Gupta. " Near Miss Clone ". ITBT 2017 on 17-18 February,2017.
- [8] Nikhil Katiyar, Nikhil Kumar, Sonam Gupta, Arun Yadav. " Improved method of Image Stegnography using modified LSB Method ". ITBT 2017 on 17-18 February,2017.
- [9] Surbhi Vij, Sonam Gupta, "Analysis of e-commerce market in India." In Proceedings of COMTECH-2016, AKGEC, Ghaziabad ,UP, India on 1-2 April, 2016.

Member Details

- Member of CSTA

Personal Details

Father's Name : Mr. Ajay Kumar Gupta
Date of Birth : 06th Oct, 1985
Marital Status : Single
Nationality : Indian
Religion : Hindu

(Dr. Sonam Gupta)