



Dr. POOJA KHERWA

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Research Gate: [researchgate.net/profile/Pooja-Kherwa](https://researchgate.net/profile/Pooja-Kherwa)

Google Scholar: [https://scholar.google.com/citations?user=fT9\\_RYkAAAAJ&hl=en](https://scholar.google.com/citations?user=fT9_RYkAAAAJ&hl=en)

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Web of Science ResearcherID: AFL-8849-2022

Professional Membership:IEEE,IEEE-CS.

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#### EXECUTIVE SUMMARY

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- Currently working as Assistant Professor with Maharaja **Surajmal Engineering college**, Delhi from Sept 2007
- Worked as Lecturer in **Dronacharya College of Engineering & Technology**, Gurgaon (Haryana) from August 2006 to September 2007
- Worked as a Lecturer in **Guru Govind Singh college of Engineering & Technology, Talwani Sabo (Punjab)** from March 2005 to August 2006.

#### EDUCATIONAL QUALIFICATIONS

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Course	College/University
<b>PhD</b>	<b>GGSIPIU ,New Delhi</b>
M.Tech(Information Technology)	GGSIPIU ,New Delhi
B.Tech. (Computer science &Engg)	Maharishi Dayanand University, Rohtak, Haryana

#### SEMINARS AND WORKSHOP

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- Attended one week faculty development Program on “Generative AI” during 1/4/2024 to 6/04/2024 organized by department of AI and data science at Dr. D Y Patil college of Engineering and Innovation VARLE, Telegan, Pune.
- Attended One week faculty development Program on Internet of Things(IoT) during 15 Jan-19 Jan 2024 ,Organised by department of ECE in association with Brain Mentors Pvt. Ltd.
- Attended One Week Industrial Training on "Modern Web design with UI"during 3rd November 2023 to 8th November 2023, organised by department of CSE in association with Brain Mentors Pvt. Ltd.
- Attended One week faculty development program on “Recent Advancement in Machine learning & Artificial Intelligence (RAMLAI’2023) from 6/2/2023 to 10/2/2023 at Maharaja Surajmal Institute of Technology by IT Department.
- Attended two weeks Faculty development program on “Deep Learning” from 21/11/2022-3/12/2022 at Maharaja Surajmal institute of Technology,organized by Brain Mentors Technology.
- Attended Five Day Faculty development program on “ IoT: Design Challenges and Emerging System Applications" from 13/12/2021 to 17/12/2021 at Indian Institute of Information Technology. Kalyani.
- Attended Five Day Faculty development program on “Foundations of Data Science and Machine Learning for Cross-domain Applications" from 27/12/2021 to 31/12/2021 at PSG College of Technology.
- Attended five day faculty development program on “Data analysis using python” on 12 th October to 16 october 2020,organized at MSIT .
- Attended five day faculty development program on “Recent advancement and challenges in IT” on 8<sup>TH</sup> TO 12<sup>th</sup> March 2021,organized at MSIT
- Attended in Three- Day Online Faculty Development Program on “Research Applications in Artificial Intelligence and Machine Learning”on 5/6/2020-7/6/2020(Three Days), Vikas College of Engineering & Technology,Vijayvada,AP INDIA
- Attended in Five- Days Online Faculty Development Program on “Artificial Intelligence”on 5/6/2020-7/6/2020(One Week), AICTE,FICCI
- Attended Five days FDP on “IOT Applications” 1/6.2020-5/6/2020,(one Week), Vikas College of Engineering & Technology,Vijayvada,AP INDIA.
- Attended 5 Days Faculty development program on “Data science using R”on 26-30 Nov., 2018 (1 WEEK) AICTE recognized STC by NITTR , Chandigarh at Maharaja Surajmal Institute of Technology
- Attended 5 Days Faculty development program on “Open Source Technology”on 3-7 Dec., 2018 (1 WEEK) AICTE recognized STC by NITTR , Chandigarh at Maharaja Surajmal Institute of Technology
- Attended 7 Days “LEX based foundation program” over Webinar on 18-25 Jan., 2019, Infosys India
- Attended 5 Days Faculty development program on “Wireless Networks”on 22-26 MAY2017 (1 WEEK) AICTE recognized STC by NITTR , Chandigarh at Maharaja Surajmal Institute of Technology
- Attended 2 Days Faculty development program on “Paradigm Shift from Devevelopment to Developed India through - Digitization”on 28-29 July , 2017 (Two days) at Maharaja Surajmal Institute of Technology
- Attended National Seminar on “Advances in Speech Technology:A Towards intelligent Human Computer Interaction”on 27-28 November, 2017 (Two days) AICTE Sponsored National Seminar held at MSIT Campus at Maharaja Surajmal Institute of Technology.
- Attended two days “Accenture Learning Symposium Workshop” 19-20th Feb 2018 held at Amity University,Noida
- Attended 5 days Faculty development program on “Emerging Trends in Information Technology”on 29Feb-4<sup>th</sup> March 2016 in MSIT.
- Attended Two days’ workshop “Big data and Hadoop” on 31Oct -1st Nov April 2014.
- Attended Two days’ workshop “Implementation of sensor network using NS2” on 25-26 April 2014.

- Attended Two days' workshop "Cloud Computing and its components" on 30-31st Oct 2013.
- Attended Two days' workshop "Android and Mobile Technology" on 11-12 Sept .2012.
- Attended Two days' workshop "Intelligent tools for various Engineering Applications" on 12-13 April, 2012.
- Attended one day seminar on "Latest trends in operating system" organized by Microsoft India Ltd.
- Attended 15 days Training program on "E-Learning" organized by CDAC Hyderabad in June 2009.

## CONFERENCES & JOURNALS.

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1. Pooja Kherwa et al.,Hindi Optical Character Recognition using Self Attention Based Model"Presented in Interntaional Conference on Contemporary Researchers in Engineering Science,Management and arts-ICCRESMA-2022 held on 27-29 January 2022 in TamilNadu India.
2. Pooja Kherwa et al.,"Predicting Socio-economic Features for Indian States Using Satellite Imagery",3rd International Conference on Innovative Computing and communication, [https://doi.org/10.1007/978-981-15-5148-2\\_26](https://doi.org/10.1007/978-981-15-5148-2_26). 2020
3. Pooja Kherwa et al.,"Efficient Recommendation System Using Latent Semantic Analysis",4<sup>th</sup> International Conference on Innovative Computing and communication, [https://doi.org/10.1007/978-981-15-5148-2\\_26](https://doi.org/10.1007/978-981-15-5148-2_26). ICICC-2021.
4. Pooja Kherwa, Poonam Bansal," Latent Semantic Analysis: An Approach to understand Semantic of Text". International Conference on Current Trends in Computer, Electrical, Electronics and Communication (ICCTCEEC-2017) IEEE-Banglore (Published). 978-1-5386-3243-7/17/\$31.00 ©2017 IEEE
5. Pooja Kherwa, Poonam Bansal," Empirical Evaluation of Inference Technique for Topic Models", 2nd International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2017). (Scopus-Springer-Published.), [https://doi.org/10.1007/978-981-13-1708-8\\_22](https://doi.org/10.1007/978-981-13-1708-8_22)
6. Pooja Kherwa, Poonam Bansal," Efficient Clustering using Non-Negative Matrix Factorization for Gene Expression Data Set" ,3rd International Conference on Advanced Computing and Intelligent Engineering..[https://doi.org/10.1007/978-981-15-1081-6\\_15](https://doi.org/10.1007/978-981-15-1081-6_15)-ICACIE-2018.(Scopus-Springer-Presented-Published)
7. Pooja Kherwa, Poonam Bansal, "A Comparative Empirical Evaluation of Topic Modeling Techniques", 3rd International Conference on Innovative Computing and communication, [https://doi.org/10.1007/978-981-15-5148-2\\_26](https://doi.org/10.1007/978-981-15-5148-2_26) (ICICC-2020) (Scopus-Springer-Presented-Published)
8. Pooja Kherwa," An approach towards comprehensive sentimental data analysis and opinion mining", Published in 4th IEEE International Advance Computing Conference Held in Gurgaon. March 2014.
9. Presented and published a paper "Quality in Semantic Web Architecture" in International Conference on Data Management (ICDM 2010, March 11-12, 2010) as a Regular Research Paper (RRP).
10. Published a paper "Ontology based Semantic Annotation Framework for Knowledge Management" in Second International Symposium on Emerging Trends and Technologies in Libraries and Information Services (ETTLIS-2010) on June 3-5, 2010.
11. Presented a paper "Evaluating web crawler algorithms" in National Conference IndiaCom 2010.
12. Presented a paper "Biometrics Systems" in National Conference in DCE, Gurgaon

### Journal Publication.

1. Pooja Kherwa et al.," Decentralized Social Media App on Ethereum Blockchain", International Journal of Engineering Applied Sciences and Technology,vol.8,issue-08,issn no.2455-2143,pp.79-83.2023.(Google Scholar)

2. Pooja Kherwa et al.,” A comprehensive survey on the significance of industrial Internet of Things, energy management and big data analytics” *Journal of Information & Optimization Sciences*, Vol. 45 (2024), No. 2, pp. 247–256. DOI : 10.47974/JIOS-1544(Scopus Indexed)
3. Pooja Kherwa et al.,” CRISHI :A Crop Recommendation System” *International Journal for Research in Applied Science & Engineering Technology (IJRASET)*, Volume 12 Issue IV Apr 2024. ISSN: 2321-9653.(Google Scholar)
4. Pooja Kherwa et al.,”An Intelligent Lane and Obstacle Detection using YOLO algorithm”, *International Journal of INTELLIGENT SYSTEMS AND APPLICATIONS IN ENGINEERING*, ,12(3s), 641–648.2023.(Scopus-Indexed)
5. Pooja Kherwa,Poonam Bansal “Three level Weight :A Efficient approach for semantic enhanced themes in latent Semantic Analysis”. *International Journal of Knowledge and Learning*, Vol. 16, No. 1, 2022 (Final Publication soon)(ESCI-Scopus-Inderscience)
6. Pooja Kherwa, Poonam Bansal, “Topic Modeling: A Comprehensive Review” In *international journal of EAI Endorsed Transactions on Scalable InformationSystems*. July 2019 doi: 10.4108/eai.13-7-2018.159623(ESCI –Indexed)
7. Pooja Kherwa, Poonam Bansal “Semantic N-Gram Topic Modeling” In *international journal of EAI Endorsed Transactions on Scalable Information Systems*. Feb 2020, ISSN: 2032-9407 (ESCI - Indexed)
8. Pooja Kherwa, Poonam Bansal “Semantic Pattern Detection in COVID-19 Using Contextual Clustering and Intelligent Topic Modeling” *International Journal of E-Health and Medical Communications*,(ESCI-Scopus)Volume 13 • Issue 2 • July-December 2022,DOI: 10.4018/IJEHMC.20220701.oa7
9. Pooja Kherwa, ”Data Preprocessing: A milestone of Web usage Mining” Published in *International Journal of Engineering Science and Innovative Technology (IJESIT)*For Volume 4, Issue 3 2015, ISSN: 2319-5967,pp-281-289.
10. Pooja Kherwa, “Regional Analysis: An Extension of Web Personalization and its application” published in *International Journal of Advanced Engineering and Global Technology(IJAEGT)* vol-03,Issue-05,May 2015. ISSN No: 2309-4893
11. Pooja Kherwa , “An Automated Framework based on Three Level Scoring Method to Choose Best Search Engine in a Particular Domain “Published in *International Journal Of Computer Application* URI: <http://www.ijcaonline.org/archives/volume83/number14/14520-2920>ISBN : 973-93-80879-14-0.
12. Pooja Kherwa, “A Survey on Semantic Annotation Tools for Knowledge Management,”*International Journal of Engineering Applied Sciences and Technology*, Vol. 6, Issue 12, ISSN No. 2455-2143, Pages 217-219.2022.
13. Pooja Kherwa, Chirag Kumar Sharma, Kashish Chhabra, Akash Kwatra, “Course Recommender System using Content Based Filtering”,*GIS Science of Journal*. VOLUME 9(6).2022.PP. 2361-2370.

#### Courses & Training:

- 1.Data Science For Engineers:NPTTEL 8 Weeks (Jan- March) 2023.
- 2.Master Class on Python:Pantech Technology(21-Days-25/10/2023-14/11/2023).
- 3.Master Class on Java:Pantech Technology(21-Days-7/02/2024-28/02/2024).

#### BOOK CHAPTER CONTRIBUTION:

1. Pooja Kherwa, Sonali Singh, Saheel Ahmed, Pranay Berry and Sahil Khurana (September 24th 2021). Articulated Human Pose Estimation Using Greedy Approach, *Machine Learning - Algorithms, Models and Applications*, Prof. Jaydip Sen, IntechOpen, DOI: 10.5772/intechopen.99354. Available from: <https://www.intechopen.com/chapters/78753>
2. Pooja Kherwa,Jyoti Khurana et al.;”Dimension Reduction Techniques in distributional semantics:An application specific review”,*Advances in Data wrangling and its*

Principles.Niranjammurthy M,Kavita Shoeran,Geetika Dhand,Prabhjot Kaur.Willey publishers.

3. Pooja Kherwa,Jyoti Khurana et al.;"Generative Adversial Network:A Comprehensive Review",Advances in Data wrangling and its Principles.Niranjammurthy M,Kavita Shoeran,Geetika Dhand,Prabhjot Kaur.Willey publishers.
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#### PATENT PUBLISHED:

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1. Prof. Poonam Bansal, Prof. Meena Tushir, Ms. Shefali Dhingra, Ms. Sonia Goel, Ms. Jyoti Arora, Ms. Pooja Kherwa patent titled Web application based Intelligent & Secured Image Retrieval Model published on 5 March, 2021 with application no. 202111008414.Granted.
  2. Dr.Gaurav Dubey,Dr.Monika Arora,Dr.Prabhjot Kaur,Dr.Geetika Dhand,Dr.Kavita Sheoran,Dr.Anupama Kaushik,Pooja Kherwa,Surender Singh,Sonika Singh,Sonika Malik,Preeti Rathi patent titled "Method for translating sign language using convolutional neural networks.published on 15/10/2021 with application number 202111041578.
  3. Gaurav Dhiman,Bhagirathi Telkar,Jagruti Shah,Rashmi Patro,Rojalini Patro,ChanderShekhar L,Prashant Dutta,Pooja Kherwa,Shiva R,Dilip R patent titled "An IOT Based Medical cloud data classification System for smart Healthcare"Granted on 30/3/2022,Australian Patent Number :2021104321.
  4. Poonam Bansal ,Pooja Kherwa ,Amita Dev ,patent titled Realtime lane and vehicle detection method published on 26/8/2022. with app no.202211045630.
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#### ACHIEVEMENTS

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- Certification of Appreciation for supervising graduate students in Inter College B.Tech. Project competition and winning Best Project of Computer Science in GGSIPU 2014.
- Research Excellence award for quality reaserch at annual day from MSIT in 2023.
- Most Read researcher of Institute in July 2021,And most read researcher of the department in Dec 2021-May 2022 as per research Gate.Also most read researchers of the department in Nov 2022.
- Most Cited researchers of department in Oct 2023 as per Research Gate.
- Most read researcher from the institution in July 2024.
- Most read researcher from department in many times in 2024 and in Sept 2024 .