CURRICULUM VITAE

Dr. Punit Soni

Ph. D (CSE), M. Tech (CSE), B. Tech (CSE)

Email: sonikpunit@gmail.com

Mob: 09896059659

CAREER OBJECTIVE

■ To become a successful engineering educator with maximum exposure to an innovative and competitive environment for inclusive and mutual growth of the institution.

EDUCATION

- Ph.D. (CSE) from IKGPTU, Kapurthala (Jalandhar) on 'Effective Content Based Image Retrieval System Using Color Histogram and Distance Measures' under the guidance of 'Dr. Vijay Kumar Lamba, Principal & Professor, GCET, Kahnpur Khui, Anandpur Sahib, Punjab. (Regd. No.:1303055) in 2022.
- M. Tech. (CSE) from GNDEC, Ludhiana under PTU, Jalandhar securing 64.54% marks in 2010.
- **B. Tech. (CSE)** from HCTM, Kaithal under Kurukshetra University, Kurukshetra securing 63.36% marks in 2004.
- Senior Secondary Examination from Board of School Education, Haryana securing 55.25% marks in 2000.
- Diploma in Electrical Engineering from Vaish Technical Institute, Rohtak securing 57.54% marks in 1998.
- Higher Secondary Examination from Board of School Education, Haryana securing 64.50% marks in 1995.

TEACHING EXPERIENCE (17 Years 11 Months)

- Chandigarh University, Gharuan, Mohali
- Working as Assistant Professor in Computer Science & Engineering Department since August 03, 2020.
- Panipat Institute of Engineering & Technology, Samalkha
- Worked as Assistant Professor in Computer Science & Engineering Department from August 20, 2018 to August 01, 2020.
- Haryana College of Technology & Management, Kaithal
- Worked as Assistant Professor in Computer Science & Engineering Department from May 01, 2011 to July 31, 2018.
- Worked as Senior Lecturer in Computer Science & Engineering Department from September 01, 2010 to April 30, 2011.
- Worked as Lecturer in Computer Science & Engineering Department from September 04, 2006 to August 31, 2010.
- Swami Devi Dyal Institute of Engineering & Technology, Barwala
- Worked as Lecturer in Computer Science & Engineering Department from August 25, 2004 to August 31, 2006.

AREA OF INTEREST

Image Processing, Content Based Image Retrieval, Compiler Design, Data Structures and Computer Networks.

RESEARCH WORK/PUBLICATIONS

International Journals (SCI/ESCI/SCOPUS)
 National/ International Conferences
 Books
 Book Chapters
 M. Tech Dissertation Supervised
 16 Nos.
 10 Nos.
 10 Nos.
 10 Nos.

MEMBERSHIP TECHNICAL SOCIETIES/ASSOCIATIONS

- Life Time Membership of Indian Society for Technical Education (ISTE). Membership No:
 LM 56977.
- Membership of Computer Science Teachers Association (CSTA). Membership ID # 41106775.
- Membership of International Association of Engineers (IAENG). Membership No: 108169.
- Membership of International Association of Computer Science and Information Technology (IACSIT). Member No: 80338466.
- Membership of International Association of Academic Plus Corporate (IAAC). Member
 No: FRTJQC-CE000999.
- Membership of Universal Association of Computer and Electronics Engineers (IRED-Institute of Research Engineers and Doctors). Membership No. SNM1010002470.
- Open Researcher and Contributor ID ORCID: 0000-0002-3805-486X.

ADMINISTRATIVE AND ACADEMIC EXPOSURE

Chandigarh University, Gharuan, Mohali (2020-Present)

- Administrative Coordinator (2nd Year CSE) at Chandigarh University.
- Academic Coordinator (2nd Year CSE) at Chandigarh University.
- Member, ABET Creiteria-6 for Department of CSE at Chandigarh University.
- Member, NBA Creiteria-2 for Department of CSE at Chandigarh University.
- Master Subject Coordinator (M.E. CSE) 02 times at Chandigarh University.
- Competition Coordinator (2nd Year CSE) at Chandigarh University.

Panipat Institute of Engineering & Technology, Samalkha, Panipat (2018-2020)

- Criteria Incharge NAAC Programme at PIET, Samalkha.
- Criteria Incharge NBA Programme at PIET, Samalkha.
- Member, Admission Counseling Center of PIET at PIET, Samalkha.
- Co-Convener Time table committee at PIET, Samalkha (2018-19).

- Member of Organizing committee of International Conferences on "Intelligent Systems: Approaches, Technologies and Networks", ISATN-2019 conducted by Department of CSE on 29 Mar 2019 at PIET, Samalkha.
- Mentor of Team secured 2nd position in Smart India Hackthon-2019 from 02 Mar 03 Mar 2019 at Mumbai.
- Member of Monitoring Squad of Department at PIET, Samalkha.
- Member of discipline and seating committees during Maestros/ Carbuncle Tech Fest at PIET, Samalkha.

Haryana College of Technology & Management, Kaithal (2006-18)

- RC Coordinator of Two Week ISTE STTP on "Electric Power System" conducted by IIT Kharagpur under NMEICT (MHRD) from 10 Jul - 15 Jul, 2017 at HCTM, Kaithal.
- RC Coordinator of Two Week ISTE STTP on "CMOS Mixed Signal and Radio Frequency VLSI Design" conducted by IIT Kharagpur under NMEICT (MHRD) from 30 Jan - 04 Feb, 2017 at HCTM, Kaithal.
- RC Coordinator of Two Week ISTE STTP on "Structural Engineering" conducted by IIT Kharagpur under NMEICT (MHRD) from 04-09 Jan, 2016 at HCTM, Kaithal.
- Coordinator of a Short Term Course on "STUDENT EVALUATION" conducted by NITTTR,
 Chandigarh through ICT from 16-20 November, 2015 at HCTM, Kaithal.
- Teaching Associate in Two Week ISTE STTP on "Environmental Studies" conducted by IIT Bombay under NMEICT (MHRD) from June 02-12, 2015.
- Coordinator of Two Week ISTE STTP on "Introduction to Design of Algorithms" conducted by IIT Kharagpur under NMEICT (MHRD), from 25-30 May, 2015 at HCTM, Kaithal.
- Member of Centralized Time Table Committee for academic session 2015-16.
- Remote Centre Coordinator for conducting the STTP's of IIT, Bombay from August, 2015 to July 2018.
- Member of Registration & Finance Committee for Star Night "GOONJ" held on April 28, 2015.
- Associate Programme Officer NSS from Dec 15, 2014.
- Coordinator of Refreshment Committee for MOCK TEST held on 15th NOV, 2014.
- Coordinator of ERP Committee for implementing the ERP software, Oct. 2014.
- Coordinator of event "Mono Acting" for Talent Show held in college on 12th Sept., 2014 organized by Department of Youth Culture & Affairs KU.
- Coordinator of Refreshment Cell of "NSS Camp on Environment Awareness" organized by HCTM, Kaithal from 03-09 May, 2013.
- Coordinator of Registration & Information Cell of "TECHNOCRAT 2K13" Technical Fest held at HCTM, Kaithal in 2013.
- Coordinator of Refreshment Cell of "Blood Donation Camp" held at HCTM, Kaithal on 15 Mar, 2013.
- Member of Publishing Committee of International Journal "IJCCIT" from 2012 at HCTM, Kaithal.

- Outdoor Media Incharge of Admission Committee at HCTM, Kaithal during 2012-2013.
- Member of Organizing Committee of "Convocation" held at HCTM, Kaithal on 19 Feb, 2012.
- Member of Cultural and Extra Curricular Activities Committee at HCTM, Kaithal during 2011 12.
- Coordinator of Reception Cell of "VENATIO-2K10" Cultural & Technical Fest held at HCTM, Kaithal.
- Coordinator of Refreshment Cell of "VENATIO-2K9" Cultural & Technical Fest held at HCTM, Kaithal.
- Member of Organizing Committee of "OSTSI2K9" Nation Level Workshop held at HCTM, Kaithal from 03-05 Apr, 2009.
- Member of Organizing Committee of "NSCRY2K9" Nation Level Workshop held at HCTM, Kaithal from 27-28 Feb, 2009.
- Coordinator of Transportation Cell of "VENATIO-2K8" Cultural & Technical Fest held at HCTM, Kaithal.
- Member of Reception Committee of "FDP-07" on "Effective Teaching" National Workshop held at HCTM, Kaithal from 30 Jul to 03 Aug, 2007.
- Member of Technical Cell in National Workshop on "Evolutionary trends on IT" held at HCTM, Kaithal on April 3, 2007.
- Member of Organizing Cell in National Conference on "Computer Applications" held at HCTM, Kaithal on March 6, 2007.

Swami Devi Dyal Institute of Engineering & Technology, Barwala, Panchkula (2004-06)

- Member of Organizing Committee of "Chinmay 2006" Cultural & Technical Fest held at SDDIET, Barwala.
- Member of Organizing Committee of "Convocation" in session 2005-06 held at SDDIET, Barwala.

SEMINAR'S/WORKSHOP'S/STC's/FDP's

 Faculty Development Programs 	:	15
■ 2- Week ISTE Workshop under NMEICT (MHRD	:	06
1- Week Short Term Course	:	05
 2- Day ISTE Workshop under NMEICT (MHRD) 	:	04
Webinars	:	06
 National Level Workshop 	:	12
 National Level Seminar 	:	02

PERSONALITY TRAITS

- Result Oriented Planning
- Never Say Die Spirit
- Punctuality
- Ready to take up Challenges

PERSONAL DETAILS

Name : Punit Soni

Father's Name : Sh. Joginder Soni

Mother's Name : Smt. SantoshDate of Birth : 26-01-1982

Gender : MaleNationality : IndianMarital Status : Married

Aadhar No. : 9741-8308-5043PAN No. : BGGPS7627N

No. of Children: 02

Permanent Address : #456/11, Adarsh Nagar, Kaithal (Haryana)

Correspondence Address : #F-901, Golden Sand, Dhakoli, Zirakpur (Punjab)

DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge and I bear the responsibility for the correctness of the above mentioned particulars.

Date:	
Place:	
	(Punit Soni)

ANNEXURE -I (PUBLICATIONS)

SCI

Paper Titled "Waste Classification for Sustainable Development Using Image Recognition with Deep Learning Neural Network Models" in MDPI Journals, Sustainability Vol. 14, No. 12, pp 1 – 18 in 2022, https://doi.org/10.3390/su14127222.

INTERNATIONAL JOURNALS

- Paper Titled "FDEIR: Content-Based Image Retrieval using Fast Demeanor Ensemble Features" in International Journal of Grid and Distributed Computing, Vol. 13, No. 2, , pp. 1477-1489, ISSN: 2005-4262 in 2020. (ESCI)
- Paper Titled "Optimized Color Correlogram based CBIR to beat the hole of Information and Interpretation" in pp. 387-392 in 2021, doi:10.1109/CSNT51715.2021.9509700. (IEEE Xplore)
- Paper Titled "Overview of Agile Practices" in Advances and Applications in Mathematical Sciences, Milli Publications, Vol. 18, No. 8, , pp. 617-626, ISSN: 0978-6803 in 2019. (ESCI)
- Paper Titled "Content Based Image Retrieval System For Different Type Of Data Based On Multi-Feature Fusion Method" in Solid State Technology Journal, Vol. 63, No. 6, pp 10448-10456, ISSN: 0038-111X in 2020. (SCOPUS)
- Paper Titled "Analysis of COVID-19 Pandemic Impact" in Turkish Journal of Physiotherapy and Rehabilitation, Vol. 32, No. 3, pp 9611-9617, ISSN 2651-4451 | e-ISSN 2651-446X in 2020. (SCOPUS)
- Paper Titled "Effective CBIR System Using Color Histogram and Distance Measures" in STM Journals, Journal of Web Engineering & Technology Vol. 6, No. 1, pp 11-15, ISSN: 2455-1880 in 2019. (UGC Approved)
- Paper Titled "Study of Content Based Image Retrieval System Using Similarity Features" in IOSR Journal of Engineering (IOSRJEN), vol. 9, No. 6, pp 35-40, ISSN (e): 2250-3021, ISSN (p): 2278-8719 in 2019. (UGC Approved)
- Paper Titled "Fingerprint Authentication System Using Log Gabor Filter" in International Journal of Advance Research, Ideas and Innovations in Technology (IJARIIT), in vol. 4, No. 1, pp 633-636, ISSN 2454-132X in 2018.
- Paper Titled "Adaptive Approach for Web Cost Estimation" in International Journal of Research in Information Technology (IJRIT) in vol. 4, No. 7, pp 52-59, ISSN 2001-5569 in 2016.
- Paper Titled "Comparative Analysis of Image metrics using De-noising techniques Using Median Filter and Weiner Filter" in International Journal of Research in Information Technology (IJRIT) in vol. 4, No. 7, pp 79-86, ISSN 2001-5569 in 2016.
- Paper Titled "A Review on Image noising Sources and image METRICS" in International Journal of Research in Information Technology (IJRIT) in vol 4, No. 3, pp 12-25, ISSN 2001-5569 in 2016.
- Paper Titled "Innovative Technique for Character Recognition" in International Journal of Advanced Research in Computer Science (IJARCS) in vol 1, No. 3, pp 266-269, ISSN: 0976-5697 in 2010.
- Paper Titled "A Criterion of Still Image Quality Assessment in Spatial Domain using Structural and Boundary Correlation Based approach" in International Journal of

- Multidisciplinary Research and Advances in Engineering (IJMRAE) in vol 2, No. 2, pp 229-238. ISSN: 0975-7074 in 2010.
- Paper Titled "A Copy Attack on Robust Digital Watermarking in Multi Domain for Stego Images" in International Journal of Research and Reviews in Computer Science (IJRRCS) in vol 1, No. 2, pp 47-49, ISSN: 2079-2557 in 2010.

BOOK

 "Computer Network", Published by Laxmi Publications Pvt. Ltd, ISBN: 10: 9380856172, ISBN 13: 9789380856179 in 2011.

BOOK CHAPTER

- Book Title "Decision Analytics for Sustainable Development in Smart Society 5.0, Issues, Challenges and Opportunities" Published by Springer Singapore, pp 131 – 152, ISBN: 9789811916885, in 2022. https://doi.org/10.1007/978-981-19-1689-2.
- Book Title "Software Defined Networks Architectures and Applications", Published by Scrivener Publications LLC, pp 63 – 95, ISBN: 9781119857303, in 2022. https://www.scrivenerpublishing.com/cart/title.php?id=753#top.
- Book Title "Enterprise Information Systems In 21st Century Opportunities & Challenges" Published by Deep & Deep Publications (P) Ltd, pp 460 – 469, ISBN-13: 9788184501834, in 2009.

https://books.google.co.in/books/about/Enterprise_Information_Systems_in_21st_C.html?id =muhh02ENfoUC&redir_esc=y

CONFERENCE

- Paper Titled "Effective Overview of Agile Practices" in International Conference on "Intelligent System: Approaches, Technologies and Networks (ISATN-2019)" on Mar 29, 2019 organized by Department of Computer Science and Engineering, PIET, Samalkha, Panipat, Haryana, India.
- Paper Titled "Effective Content Based Image Retrieval System Using Color Histogram And Distance Measures" in International Conference on "Innovations in Computing (ICIC2018)" from Dec 14-15, 2018 organized by Department of Computer Science and Engineering, CGC College of Engineering, Chandigarh Group of Colleges, Mohali, Punjab, India.
- Paper Titled "On Cloud Security using Biometric Cryptographic Techniques" in International Conference on "Innovations in Computing (ICIC2017)" from Dec 14-15, 2017 organized by Department of Computer Science and Engineering, CGC College of Engineering, Chandigarh Group of Colleges, Mohali, Punjab, India.
- Paper Titled "Case Studies: Advance in S/W Engineering Education" in National Level Conference from 20-21 Mar, 2009 at HIET, Kaithal, Haryana, India.
- Paper Titled "Case Study in Image Authentication Algorithms" in INTERNATIONAL Conference from 18-19 Oct, 2008 at CIET, Rajpura, Punjab, India.
- Paper Titled "RSA Optimization" in AICTE sponsored National Level Seminar on 24 May, 2008 at Apeejay Institute, Jalandhar, Punjab, India.
- Paper Titled "Implementation of Soccer Games Using AI" in IEEE National Level Conference from 13-15 Mar, 2008 at HCE, Sonipat, Haryana, India.

- Paper Titled "Evolution of Neural Networks" in National Level Conference from 28-29 Jan, 2008 at JNCDMCE, Sirsa, Haryana, India.
- Paper Titled "Today's IT World" in National Level Conference from 17-18 May, 2007 at SVIET Banur, Patiala, Punjab, India.
- Paper Titled "QoS with Multi path Protocols" in National Level Conference on 06 Mar, 2007 at HCTM Kaithal, Haryana, India.
- Paper Titled "Hazards of Nanotechnology" in National Level Conference on 06 Mar, 2007 at HCTM Kaithal, Haryana, India.

ANNEXURE - II (FDP's / WORKSHOP's /SEMINAR's)

- One Week Faculty Development Program on "Data Analytics with Python" from 22nd June 26th June, 2020 conducted by NITTTR, Chandigarh.
- One Week Global E-Symposium on "Global Pandemic Outbreak: Role of Technology and Automation" from 1st June – 5th June, 2020 conducted by JSS Academy of Technical Education, Noida.
- One Week Faculty Development Program on "Big Data Analytics" from 18th 22nd May, 2020 conducted by NITTTR, Chandigarh.
- One Week Faculty Development Program on "Linux Applications in Engineering Education" from 27th April – 1st May, 2020 conducted by NITTTR, Chandigarh.
- One Week Faculty Development Program on "Cloud, Fog and Edge Computing" from 14th 18th April, 2020 conducted by Department of Computer Science & Engineering NITTTR, Chandigarh.
- One Week Faculty Development Program on "Strengthening Industry Academia Integration in Technical Institutions" from 9th – 13th December, 2019 conducted by NITTTR, Chandigarh under MHRD, at PIET, Samalkha.
- One Week Short Term Course on "Pattern Recognition and Cyber Security Applications" from 05th -09th September, 2019 organized by Department of Computer Engineering at NIT, Kurukshetra.
- Three Days Faculty Development Program on "Soft Computing Applications to Design of Intelligent Systems" from 18th - 20th June, 2019 organized by Department of Computer Science & Engineering at PIET, Samalkha.
- Smart India Hackathon-2019 from 2nd March 4th March, 2019 at Welingkar Institute of Management Development & Research, Mumbai, Maharashtra. Organized by MHRD, AICTE.
- Three Days Workshop on "Research Based Pedagogical Tools(RBPTs)" from 1st June 3rd June, 2017 at Global College of Engineering & Technology (jointly with (IISER) Pune, MHRD, DST/DBT and the British Council), Kahnpur Khui, (Anandpur Sahib) Punjab-140 117.
- One day RC Coordinator Orientation Workshop conducted by IIT Bombay under NMEICT (MHRD) on 30th March, 2017 at IIT, Bombay.
- One Week Faculty Development Programme on "Android" conducted by Google Inc. from January 02-06, 2017 at UIET, Kurukshetra.
- Two Week ISTE STTP on "Introduction to Design of Algorithms" conducted by IIT Kharagpur under NMEICT (MHRD), from 25-30 May, 2015 held at HCTM, Kaithal.
- One Week ISTE STTP for Coordinators on "Introduction to Design of Algorithms" conducted by IIT Kharagpur under NMEICT (MHRD), from 16-20 March, 2015 held at IIT Kharagpur.
- Two Week ISTE workshop on "Control Systems" conducted by IIT Kharagpur under NMEICT (MHRD), from 02–12 Dec, 2014 held at HCTM, Kaithal.
- Two Week ISTE workshop on "Cyber Security" conducted by IIT Bombay under NMEICT (MHRD) from 10-20 July, 2014 at HCTM, Kaithal.
- Two Week ISTE workshop on "Computer Networking" conducted by IIT Bombay under NMEICT (MHRD) from 30 June-05 July, 2014 at HCTM, Kaithal.

- Two Week ISTE workshop on "Computer Programming" conducted by IIT Bombay under NMEICT (MHRD), from 16-21 June, 2014 at HCTM, Kaithal.
- One Week ISTE-PTU FDP on "Emerging trends in Nano Electronics & Material Design" from 28 Apr-02 May, 2014 at GCET, Kahanpur Khui (Punjab).
- National Workshop "Research Techniques in Science & Engineering" on March 20, 2014 at HCTM, Kaithal.
- Two Week ISTE Workshop on "Database Management Systems" conducted by IIT Bombay under NMEICT (MHRD) from 21-31 May, 2013 at HCTM, Kaithal.
- 2-Day ISTE Workshop on "Research Methods in Educational Technology" conducted by IIT Bombay under NMEICT (MHRD) on 2nd and 9th Feb 2013, at HCTM, Kaithal.
- 2-Day ISTE Workshop on "Aakash for Education" conducted by IIT Bombay under NMEICT (MHRD) from 10-11 Nov, 2012, at HCTM, Kaithal.
- National Workshop "Ethical Hacking & Information Security" from 11-12 April, 2012 at HCTM, Kaithal.
- National Workshop "Latest Trends in Information Technology" from 14-15 July, 2011 at HCTM, Kaithal.
- National Workshop "Industry Academia Partnership & Entrepreneurial Promotion" from 25-27 May, 2011 at GIMT, Kanipla, Kurukshetra.
- National Workshop "Network Security" from 18-19 April, 2009 at SKIET, Kurukshetra.
- National Workshop "Advanced Developer Technologies" on 11 April, 2009 at GIMT, Kanipla, Kurukshetra.
- National Workshop "Open Source Technologies & Security Issues" from 03-05 April 2009 at HCTM, Kaithal.
- National Workshop "Network Security & Cryptography" from 27-28 Feb 2009 at HCTM, Kaithal.
- One Week Short Term Course "VB .NET" from 19-23 May, 2008 at NITTTR, Chandigarh.
- National Workshop "Applied Soft Computing" from 10-11 March 2008 at SKIET, Kurukshetra.
- One Week National Workshop "Effective Teaching" conducted by NITTTR, Chandigarh from 30 Jul to 03 Aug 2007 at HCTM, Kaithal.
- National Level Workshop "Evolutionary Trends in IT" on 03 Apr, 2007 at HCTM, Kaithal.
- National Level Seminar "IT Technology: Software Reliability" from 09-10 Feb, 2007 at NC College of Engg., Israna.
- National Level Workshop "Nanotechnology & Modeling" held on 05 Jan, 2007 at HCTM, Kaithal.
- National Level Workshop "MATLAB/SIMULINK Technology" held on 04 Jan, 2007 at HCTM, Kaithal.
- National Level Seminar "IT Education & Industry Needs Gaps, Concerns & Solutions" from 24-25 Mar, 2006 at NC College of Engg., Israna.

ANNEXURE -III (M. Tech. Research Guidance)

• Kurukshetra University, Kurukshetra

Sr. No.	University Roll No.	Student Name	Dissertation Topic
1.	919238	USHA MOR (2013-15)	SOFTWARE FAULT PREDICTION USING OBJECT ORIENTED METRICS.
2.	1374068	POOJA (2014-16)	A LOCAL STANDARD DEVIATION AND ANT COLONY OPTIMIZATION BASED IMAGE RETRIEVAL SYSTEM.
3.	1374075	SHEFALI SHARMA (2014-16)	COMPARATIVE ANALYSIS OF IMAGE METRICS USING DE-NOISING TECHNIQUES USING MEDIAN FILTER AND WEINER FILTER.
4.	1374086	NEETU KAMBOJ (2014-16)	DESIGNING OF ARCHITECTURE FOR OBJECTS FEATURE EXTRACTION AND RETRIEVAL OF A GRAY SCALE IMAGE.
5.	1374095	PREETI KAUSHIK (2014-16)	ADAPATIVE APPROACH FOR WEB COST ESTIMATION.
6.	674242	ANSHU GARG (2015-17)	ATTRIBUTE SELECTION IN DATA MINING WITH DISCRETE AND CONTINUOUS CLASS DATA SETS
7.	674247	IRWIN (2015-17)	IMPLEMENTING CLOUD SERVER SECURITY OF E - COMMERCE BASED WEBSITE USING MOUSE CLICK.
8.	674241	AMIT KUMAR BURA (2015-17)	DIGITAL IMAGE WATER MARKING ANALYSIS USING DWT SVD & FUZZY LOGIC.
9.	670786	SOURABH ARORA (2015-17)	FINGERPRINT AUTHENTICATION SYSTEM USING LOG GABOR FILLTER.
10.	5454013	DEEPIKA KAUSHIK (2017-19)	ANALYSIS OF AGILE PRACTICES USING FACTOR ANALYSIS TECHNIQUE