Bio-Data

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Designation	Assistant Professor	
Department	Yadavindra Dept. of Engg. / Computer Sci & Engg.	
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Academic Qualifications					
Examination	**Name of Degree**	**%age**	**Year**	**University/Institute**	
Secondary	10TH	64	2001	CBSE	
Sr. Secondary	DIPLOMA IN COMPUTER ENGINEERING	74	2005	PSBTE&IT, CHD	
Bachelor's Degree	B.E.(COMPUTER ENGINEERING)	60.00	2008	BHARATI VIDYAPEETH UNIVERSITY, PUNE	
Master's Degree	M.TECH.(COMPUTER SCIENCE AND ENGINEERING)	82.82	2011	DEPARTMENT OF COMPUTER SCIENCE, PUNJABI UNIVERSITY, PATIALA	
Ph.D.	Dissertation Title : RECOGNITION OF TYPEWRITTEN GURMUKHI SCRIPT DOCUMENTS		2021	I.K. GUKRAL PUNJAB TECHNICALUNIVERSITY, KAPURTHALA	

Additional qualification:
Gate 2012 CS-COMPUTER SCIENCE & INFORMATION Cleared

Salient features of your Ph.D. research work
1. No significant work has been reported on RECOGNITION OF TYPEWRITTEN GURMUKHI SCRIPT DOCUMENTS earlier. 2. To the best of our knowledge, no work is found, for complete separation of characters lying in two zones such as sihayri ( ), bihari ( ) and urha ( ). In our proposed technique, these characters are getting segmented properly. 3. Implemented 4 Layer CNN model on typewritten Gurmukhi character images and achieved accuracy. 4. This work can be used for creating a database of old typewritten documents in government offices.

Full-time Teaching Experience					
#	Name of University/College	Designation	Status	From	To
1	Punjabi University Patiala / Yadavindra Department of Engineering, Punjabi University Guru Kashi campus, Damdama Sahib (Talwandi sabo)	ASSISTANT PROFESSOR	Contractual	03-08-2011	Till Date
2	MIMIT,MALOUT	LECTURER	Contractual	27-01-2009	19-06-2009

#	Publication Type	Title of the Paper	Journal Name	Year	Vol. No.	Page No.	ISSN No.	Impact Factor	UGC Listed Journal	Scopus Index
1	Peer Reviewed	Recognition of Typewritten Gurmukhi Characters	International Journal of Computer Aided Engineering and Technology	2020	n.a	n.a	1757-2665	No	Yes	Yes
2	Peer Reviewed	Hybrid Binarization Approach for Typewritten Gurmukhi Script Documents	International Journal of Control and Automation (IJCA)	2019	12(4)	194-198	2005-4259	No Impact factor	Yes	Yes
3	Peer Reviewed	A novel approach for segmentation of typewritten gurmukhi	International Journal of Advanced Science and Technology	2019	27	77-96	2005-4238	No Impact factor	Yes	Yes
4	Peer Reviewed	An experimental technique for OCR line and word segmentation using probability distribution estimation	International Journal of Recent Technology and Engineering	2019	8	1484-1494	2277-3878	No Impact factor	Yes	Yes
5	Peer Reviewed	A Brief Review on Optical Character Recognition Techniques	International Journal on Future Revolution in Computer Science & Communication	2019	5	239-243	2454-4248	No Impact factor	Yes	No
6	Peer Reviewed	Detection of Rushing attack by comparing energy, Throughput and delay with AODV	IPASJ INTERNATIONAL JOURNAL OF COMPUTER SCIENCE(IIJCS)	2014	2	036-041	2321-5992	No Impact factor	Yes	No
7	Peer Reviewed	Offline Signature Verification System - A Review	International Journal of computer application and Engineering Technology	2014	3	188-192	2277-7962	No Impact factor	Yes	No

8	Peer Reviewed	Software Cloning and its Detection Methods	International Journal of Computer Science And Technology	2014	5	191-194	0976-8491	No Impact factor	Yes	Yes
9	Peer Reviewed	A Study of Various Haze Removal Algorithms	International Journal of Innovative Research in Technology	2014	1	1-7	2349-6002	No Impact factor	Yes	No
10	Peer Reviewed	Haze Removal in Color Images Using Hybrid Dark Channel Prior and Bilateral Filter	International Journal on Recent and Innovation Trends in Computing and Communication	2014	12	4165-4171	2321-8169	No Impact factor	Yes	No
11	Peer Reviewed	Hybrid Binarization technique for historical Manuscript	International Journal of Image Processing and Vision Science	2012	1	76-81	2278-1110	No Impact factor	Yes	No
12	Peer Reviewed	A Review of Optimal Binarization Techniques On Documents with Damaged Background	International Journal of Computer Science And Technology	2011	2	237-239	0976-8491	No Impact factor	Yes	No

Other activities / responsibilities:

1. Guided 3 student of Mtech CE in Yadavindra College of Engg. Talwandi Sabo

2. Time Table and Workload Incharge at Department Level in 2019.

3. Worked as Assistant Load Incharge in 2015-2016 session in CE Section.

4. Intra College level duties (Athletic meet/ Junior Science Star/ Admission Duties/ Examination duties and Evaluation/ Training Placement duties/ any other duties assigned byUniversity)

5. As an Expert for Practical Examination duties are performed at various Colleges.

6. Flying Squad Duty at Punjabi University Centre.

7. Physical Verfication of Goldern Heart Stuents as Assistant invigilator/ Invigilator.

8. Class Counsellor of P.G and U.G classes.

9. Question Paper Setting.

10. Responsibilities in Farewell / Fresher Party Activities held at Y.C.o.E, Talwandi Sabo.

11. Participated in the Online AICTE Recognized Faculty Development Programme on Penetration Testing and Malware Analysis from 20/07/2020 to 31/07/2020 (Two Weeks) Organized by Computer Science and Engineering Department NITTTR, Chandigarh.

12. Participated in the Online AICTE Recognized Faculty Development Programme on Data Science using R from 11-05-20 to 15-05-20 (One Week) Organized by Computer Science and Engineering Department NITTTR, Chandigarh.

13. Participated in the Online AICTE Recognized Faculty Development Programme on Data Analytics using Python from 18-05-20 to 22-05-20 (One Week) Organized by Computer Science and Engineering Department NITTTR, Chandigarh.

14. Participated in the Online AICTE Recognized Faculty Development Programme on Strategic Planning for Entrepreneurship Promotion from 04-05-20 to 08-05-20 (One Week) Organized by Entrepreneurship Development and Industrial Coordination Department NITTTR, Chandigarh.

15. Participated in the Online AICTE Recognized Faculty Development Programme on Refresher course on Application of Nanoscience in Modern Day Research and Technology from 05/06/2020 to 18/06/2020 (Two Weeks) Organized by Applied Science Department NITTTR, Chandigarh.

16. Participated in "WEBINAR ON IOT"" conducted by Department of Electronics and Communication Engineering in Association with Pantech ProEd on dated 19 may2020

17. Participating in "National Webinar on Intellectual Property Rights and Patenting" organized by IPR Club, Yadavindra College of Engineering, Punjabi University Guru Kashi Campus, Talwandi Sabo on 23 May 2020.

18. Participated in the webinar: "Strategies for Searching IEEE Xplore" Organized by Knowledge Resource Centre, I.K. Gujral Punjab Technical University, Kapurthala dated 29/05/2020.

19. Participated in two days National Workshop on INNOVATIONS IN SCIENCE-2015, OCT 7-8,2015.

20. Attended National conference RAISE-2012 on 6-7 Jan 2012 at GRDCOE, BTI

21. Participated in 2 weeks faculty development programme Yadavindra college of Engg., Talwandi sabo conducted by NITCON, CHD in January 2014.

22. Attended Workshop on "PERSONALITY DEVELOPMENT" on dated 26-28, November, 2014 at Yadavindra college of engineering, Talwandi Sabo.

23. Attended a ISTE-PTU Faculty Development Programme for a period of one weeks on "INTRODUCTION TO LABVIEW & ITS APPLICATIONS IN DIGITAL SIGNAL PROCESSING" organized by MIMIT, Malout.

24. NCRTMCS-2015 13th ISITA Conference; National Conference on Recent Trends in Mathematical and Computational Sciences (3rd–4th January, 2015) Organized by university department of statistics & computer applications T.M. BHAGALPUR UNIVERSITY, Bhagalpur – 812 007, Bihar.

25. Attended 2 days National Workshop on "INNOVATIONS IN SCIENCE-2015" on dated 07-08, October, 2015 at Yadavindra college of engineering, Talwandi Sabo.

26. Attended 2 days National Workshop on "INNOVATIONS IN SCIENCE-2016" on dated 15-16, September, 2016 at Yadavindra college of engineering, Talwandi Sabo.

27. Attended one week duration short term course on "ENGINEERING TODAY-2016" on dated 21-26, November, 2016 at Yadavindra college of engineering, Talwandi Sabo.

28. Attend one day national Seminar on Recent Advances and Future Trends in Digital Image Processing (RAFIP) 2010 held on 30th march 2010 at DCSE, Punjabi University Patiala.