

## Dr Navdeep Kaur



**Assistant Professor**  
**Computer Science and Applications**

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### Areas of Interest

- Medical Image Analysis
- Natural Language Processing

### Educational details

Degree	Year	University	Comments
Ph.D	2022	Panjab University Chandigarh	
M.E (CSE)	2007	Thapar University Patiala	Stood 3 <sup>rd</sup> in University
B.Tech (CSE)	2005	Punjab Technical University, Jalandhar	

### Professional Details

Designation	From	To	Organization
Assistant Professor	2013	Till Date	Mehr Chand Mahajan DAV College for Women, Chandigarh
Assistant Professor	August 2010	July 2013	PEC University of Technology, Chandigarh
Lecturer	Jan 2010	August 2010	CCET Chandigarh
Software Engineer	Aug 2007	Feb 2009	Globallogic India Pvt. Ltd, Noida

### Awards & Recognitions

Award	Institute	Year
Best Paper Award	IETE Chandigarh	August 2017
Cleared UGC Net	UGC	June 2012
Super Star Award for outstanding performance	Globallogic India Pvt Ltd, Noida	Feb 2008
Super Star Award for outstanding performance	Globallogic India Pvt Ltd, Noida	Dec 2008
Best Team Award for outstanding performance	Globallogic India Pvt Ltd, Noida	Dec 2007

### Research Publications

Title	Journal	Refereed	Date and Year of Publication	Online Link
CADxReport: Chest x-ray report generation using co-attention mechanism and reinforcement learning	Computers in Biology and Medicine <b>SCI/SCOPUS (IF 6.69)</b>	Yes	April 2022	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0010482522002906">https://www.sciencedirect.com/science/article/abs/pii/S0010482522002906</a>
RadioBERT: A deep learning-based system for medical report generation from chest X-ray images using contextual embeddings	Journal of Biomedical Informatics <b>SCI/SCOPUS (IF 8)</b>	Yes	2022	<a href="https://www.sciencedirect.com/science/article/abs/pii/S1532046422002258">https://www.sciencedirect.com/science/article/abs/pii/S1532046422002258</a>

CheXPrune: sparse chest X-ray report generation model using multi-attention and one-shot global pruning	Journal of Ambient Intelligence and Humanized Computing <b>SCOPUS (IF 3.69)</b>	Yes	2022	<a href="https://link.springer.com/article/10.1007/s12652-022-04454-z">https://link.springer.com/article/10.1007/s12652-022-04454-z</a>
Methods for automatic generation of radiological reports of chest radiographs: a comprehensive survey	Multimedia Tools and Applications <b>SCI/SCOPUS (IF 2.7)</b>	Yes	2021	<a href="https://link.springer.com/article/10.1007/s11042-021-11272-6">https://link.springer.com/article/10.1007/s11042-021-11272-6</a>
Automated Cervical Cancer Screening using Transfer Learning	International Journal of Advanced Research in Science & Engineering	Yes	August 2017	
Cloud Computing: Reshaping the Indian Industry	New Horizons	Yes	August 2016	
Zero Proof Authentication and Efficient Load Balancing Algorithm for Dynamic Cloud Environment	International Journal of Advanced Research in Computer Science and Software Engineering	Yes	2013	
Comparative Analysis of Existing Load Balancing Techniques in Cloud Computing	International Journal of Engineering Science Invention	Yes	January 2013	
Comparative Analysis of Existing Dynamic Load Balancing Techniques	International Journal of Computer Applications	Yes	May 2013	
Security issues occur in Cloud Computing and there Solutions	International Journal on Computer Science and Engineering (IJCSSE)	Yes	May 2012	
Different Types of SQL Injection Attacks and Countermeasure	International Journal of Systems , Algorithms & Applications	Yes	May 2012	
Browser Prevention against Phishing Website Security Risk	International Journal of Computer Science and Communication	Yes	June 2012	

#### Books Published

Title	Publisher	Year of Publication
<i>Computer Fundamentals and Computing Software</i>	Kalyani Publishers	2018

#### Projects Undertaken

Project title: "A Compressed Deep Learning Model for Medical Report Generation", funded by King Abdulaziz University (KAU), Jeddah, Saudi Arabia. **(On Going)**

#### Research Guidance

##### Masters: 4

- Nayandeep Sran, "Zero Proof Authentication & Efficient Load Balancing Algorithm for Dynamic Cloud Computing Environment", 2013
- Aanchal Malhotra, "Browser Prevention Against Phishing Website Security Risk", 2012
- Karamjit Singh, "Secure and Cost efficient Cloud Computing over IaaS via Access Control", 2012
- Manmohan Singh, "A Robust Method For Hiding Data In Images By Maintaining Image Quality"