

Faculty Profile

Faculty Name	Aakanksha Mahajan
Designation	Assistant Professor
Qualification	Ph.D*, M.Tech(CSE), B.Tech(CSE)
Email	aakanksha.cse@piet.co.in
Area of Interest	Artificial Intelligence, Machine Learning, Software Engineering
Work Experience (Total)	9 Years
<ul style="list-style-type: none"> • Teaching 	9 Years
<ul style="list-style-type: none"> • Research 	-
<ul style="list-style-type: none"> • Industry 	-
<ul style="list-style-type: none"> • Others 	-
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level	Design & Analysis Of Algorithms, Software Engineering, Software Testing, Theory Of Computation, Data Structure, Mobile Computing, Compiler Design, Visual Basics
Membership of Professional Bodies	
Research Publications	
<ul style="list-style-type: none"> • Research Papers UGC-CARE 	6
<ul style="list-style-type: none"> • Research Papers SCOPUS 	2
<ul style="list-style-type: none"> • Research Papers WoS/SCI/ABDC 	
<ul style="list-style-type: none"> • List of Publications 	<p>1. Mahajan A. , Vashisht V. and Bansal R. A Novel Approach for Detection of Optic Disc and Lesion Location for Screening Diabetic Retinopathy, in International Journal of Healthcare Information Systems and Informatics, Vol 16, Issue 4, Article 20 (accepted & will be available online soon)</p> <p>2. Mahajan A. , Vashisht V. and Bansal R. 2019. Differential Evolution based Optimized Blood Vessel Segmentation in Diabetic Retinopathy in Journal of Advanced Research in Dynamical & Control System , Page: 192-204, DOI:</p>

10.5373/JARDCS/V11I10/20193031

3. Goyat R, Mahajan A. 2020. Underwater Sensor Network Applications: A Review in International Journal of Recent Research Aspects, ISSN: 2349-7688, Vol. 7, Issue 4, Dec 2020, pp 1-4

4. Goyat R, Mahajan A. 2018. Reliable and Power Efficient Routing in Underwater Sensor Networks in International Journal of Recent Research Aspects, ISSN: 2349-7688, Vol. 5, Issue 2, June 2018, pp 16-20

5. Gupta J, Mahajan A. 2016. BPSO Optimized K-means Clustering Approach for Data Analysis. In International Journal of Computer Applications 133(15):9-14

6. Gupta J, Mahajan A. 2015. BPSO Optimized K-means Clustering Approach for Medical Data Analysis. In International Journal of Scientific Research & Technology (IJSRET) ,822-825, Vol. 4, Issue 8

7. Antil D, Mahajan A. 2014. Vernam Cipher Encrypted Approach for Classification Rule Hiding to Preserve Privacy in Database. In International Journal of Engineering Research & Technology (IJERT) Vol. 3, Issue 5

8. Jain S, Mahajan A. 2012. Data Mining Based on Semantic Similarity to Mine New Association Rules. In Global Journal of Computer Science and Technology Software & Data Engineering (GJCST) Vol. 12, Issue 12,pp 11-17

9. Kumar G, Mahajan A. 2011. Without Expert Fuzzy based Data Mining based On Fuzzy Similarity to Mine New Association Rules. In International Journal of Computer

	Applications ,pp 1-5
Book and Chapter Publications	
• Books Authored published by International Publishers	
• Books Authored published by National Publishers	
• Publication of Chapter in Edited Books	
• Editor of Book by International Publishers	
• Editor of Book by National Publishers	
• Translation Work of Book	
• List of Book and Chapter Publications	
Patents	
• Published	
• List of published patent(s)	
• Filed	
• List of filed patent(s)	
PhD Guidance	
• Degree Awarded	
• Thesis Submitted	
M.Tech. Guidance	3
• Degree Awarded	2
• Thesis Submitted	1
Research Project	
• List of Research project	
Consultancy	
• List of Consultancy	
Awards & Honours	

<ul style="list-style-type: none"> List of Awards & Honours 	<ol style="list-style-type: none"> 1. Won Best Faculty Award from CSE in 2016 at PIET, Samalkha 2. Got an appreciation letter from the Department of CSE, PIET in 2019 3. Got Gold Medal for being the batch topper in B.Tech, Computer Science & Engineering convocation at Doon Valley Institute of Engineering & Technology.
<p>Invited lectures / Resource Person/ paper presentation in Seminars/ Conferences/full paper in Conference</p>	
<ul style="list-style-type: none"> International (Abroad) 	
<ul style="list-style-type: none"> International (Within Country) 	3
<ul style="list-style-type: none"> National 	1
<ul style="list-style-type: none"> List of published papers 	<ol style="list-style-type: none"> 1. Mahajan A. , Kumar S. and Bansal R. 2018. A Novel Approach of Optic Disc Detection for Diagnosis of Diabetic Retinopathy. In Springer LNNS Series: International Conference on Communication, Computing and Networking, pp 393-406 2. Mahajan A. , Kumar S. and Bansal R. 2017. Diagnosis of Diabetes Mellitus using PCA and Genetically Optimized Neural Network. In International Conference on Computing Communication and Automation (ICCCA-2017), pp 334-338 3. Mahajan A. , Kumar S. and Bansal R. 2017. Diagnosis of Diabetes Mellitus using PSO and KNN Classifier. In International Conference on Computing and Communication Technologies for

	<p>Smart Nation(IC3TSN), pp 32-38</p> <p>4. Presented a paper titled "Routing Security in Ad-hoc Networks" in RAECT-11 in Guru Nanak Dev Engineering College, Ludhiana</p>
<p>Organizing National Conference/ International Conference/ FDP/STTP</p>	
<p>• List of Conference/FDP/STTP committee</p>	<ol style="list-style-type: none"> 1. Organized ICT Based 5 Day Short Term Training Programme on ' Strengthening Industry Academia Integration in Technical Institutions' conducted by EDIC Department, National Institute of Technical Teachers Training and Research (NITTTR, Chandigarh) (Dec 9-13, 2019) 2. Coordinated One Day workshop on Virtual Labs conducted by IIT Delhi VLab Team in Department of Computer Science and Engineering, PIET (Jan 30,2019) 3. Coordinated State Level Workshop (INNOTECH-2017) on Virtual Labs organized by Department of Computer Science and Engineering, PIET (Mar 29,2017) in association with IIT, Delhi VLab Team 4. Coordinated One Day workshop on Virtual Labs conducted by IIT Delhi VLab Team in of Computer Science and Engineering, PIET (Feb 3,2017) 5. Organized One Day Workshop on Cloud Computing organized by Department of Computer Science and Engineering, PIET (Mar 22,2017) and conducted by Aprtron Solutions Private Ltd.

	<p>6. Coordinated One Day workshop on Virtual Labs conducted by IIT Delhi VLab Team in of Computer Science and Engineering, PIET (March 12, 2015)</p> <p>7. Coordinated One Day workshop on Virtual Labs conducted by IIT Delhi VLab Team in of Computer Science and Engineering, PIET (Nov 21,2014)</p>
Social Contributions and Sports	
<ul style="list-style-type: none"> • List of Social Contributions and Sports 	