



Shikha Magotra

Research Scholar, Shri Mata Vaishno Devi University
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Professional Experience:

- **Worked as Lecturer in the Department of Information Technology at Model Institute of Engineering & Technology, Jammu (MIET) from 28-11-2008 to 14-3-2011 (2 years 4 months).**
- 1 year of teaching experience in Global institute PTU distance learning centre in Jammu

Academic Profile:

Pursuing Ph.D. in Computer Science Engineering from Shri Mata Vaishno Devi University, Katra, J&K, under the guidance of Dr. Baijnath Kaushik and Dr. Ajay Kaul, Assoc. Prof., SoCSE, SMVDU on research title “Development of Script Recognition System for Machine-printed Takri Script : An Indian Regional Script”

M.Tech. in the Department of Computer Science Engineering, from Punjab Institute of Technology Kapurthala (PTU Main campus) with specialization in Networking Systems

GATE – 2010 Qualified (All India 11287th Rank)

Examination Passed	University/Board	Year	Marks Obtained	Class
Ph.D.	Shri Mata Vaishno Devi University	Pursuing	Course work CGPA 8.89	First
M.Tech. CSE(Networking Systems)	Punjab Technical University	2013	CGPA 7.3 out of 10	First division
B.E. IT	University of Jammu	2007	64.17%	First division
H.S.C.	J&K Board	2003	73%	First division
S.S.C.	J&K Board	2001	78%	Distinction

Projects & Work Done:

1. M.Tech. Thesis:

Thesis Title: Detection of HELLO flood attack on LEACH protocol

Technology Used: Matlab

Thesis Guide: Dr. Krishan Kumar Saluja

2. B.E. Project:

Project Title: On-line examination system

Responsibility: Coder & Database Designer

Technology Used: VB.Net & SQL Server 2000

3. Presented research paper entitled “Detection of HELLO flood attack on LEACH protocol” in IEEE International Advance Computing Conference (IACC’14) held at ITM university Gurgaon on February 21-22, 2014.
4. Presented research paper entitled “Impact of HELLO flood attack on Hierarchical Routing Protocols in WSN” in 1st International Conference on Recent Innovations in Computing (ICRIC’18) held at Central University of Jammu on March 5-6, 2018.
5. Presented research paper titled “A Database for Printed Takri class of North-West Indian Regional Script” in FTNCT-2019 held at C-DAC Centre, Mohali

Publications:

- “Use of Classification Approaches for Takri Text Challenges” in Springer LNCS Scopus indexed Proceedings (July 2021)
- “A Database for Printed Takri Class of North-West Indian Regional Scripts” in Springer CCIS series Scopus indexed (April 2020)
- “A Comparative Analysis for Identification and Classification of Text Segmentation Challenges in Takri Script” in Sadhana Journal by Indian Academy of sciences SCI indexed journal (June 2020).
- “Impact of HELLO flood attack on Hierarchical Routing Protocols in WSN” in IJOES (An International Journal of Engineering Science), Special Issue March 2018, Vol. 27, UGC Approved Journal with ISSN: 2229-6913(Print), ISSN: 2320-0332(Online)
- “Detection of HELLO flood attack on LEACH protocol” in the IEEE digital library with ISBN 978-1-4799-2571-1

Achievements

“InSc Research Excellence Award 2020” for the work titled “A Comparative Analysis for Identification and Classification of Text Segmentation Challenges in Takri Script” in Sadhana Journal by Indian Academy of sciences SCI indexed journal (June 2020).

Reviewer for Journal of Institute of Scholars (InSc)- International Journal of Computer Science & Information Technology

Technical Skills:

Programming languages : C, C++, VB.Net, JAVA

Back end : SQL Server 2000

Operating System : Windows, Linux

Fields of interest:

Natural Language Processing, Computer Networks, Databases, Sensor Networks, Network Security.

Activities:

1. Certified course in “Programming in Visual Basic.Net” conducted by Software Technology Group International Ltd. (july 2006).
2. Attended Short term course on "Cloud Computing (CC-09)" Conducted by Computer Science Department National Institute of Technology, Hamirpur (28 dec, 2009 – 1 jan, 2010).
3. Attended workshop on “Network Simulation Tool (NS2)” organized by Punjab institute of technology, Kapurthala (PTU Main Campus) (3- 4 April, 2013).
4. Guided several B.E. Projects.
5. Certified Two week Refresher course on “Introduction to MATLAB and Research Enhancement Tools” organised by Shri Mata Vaishno Devi University, Katra, J&K (16- 25 March, 2018)
6. Attended Faculty Development Programme on “Applications of Soft Computing and Machine Learning” at School of Computer Science Engineering, SMVDU, Katra, J&K (3- 7 April, 2018)
7. Attended One week Faculty Development Programme on “Wireless and Mobile Communication” organized by MeitY, Govt. of India at SMVDU, Katra (3- 7 December, 2018)
8. Attended One week Faculty Development Programme on “Artificial Intelligence and Machine Learning” organised by MeitY, Govt. of India at SMVDU, Katra (17- 21 December, 2018)

Personal Profile:

Name: Shikha Magotra

Gender: Female

Date of birth: 24-09-1986

Marital status: Married

Nationality: Indian

Father’s Name: Sh. Ram Rattan Magotra

Linguistic Ability: English, Hindi

Present Address: 201, Chhoti Baradari part 2, Jalandhar

Personal Strength: Good listener, Self-confidence, Optimism and Hard working.

Declaration: I hereby declare that all the details furnished above are true to the best of my knowledge and belief.

SHIKHA MAGOTRA