

## **Ms. Shruti Aggarwal**

Assistant Professor

S.G.G.S.W.U.

Fatehgarh Sahib

Email: [shruti\\_cse@sggswu.org](mailto:shruti_cse@sggswu.org)

**Area of Specialization: Data Mining, Software Engineering, Databases**

### **Subjects Taught**

Fundamentals of Computers, C, C++, Database Management System, Relational DBMS, Information Retrieval, Data Mining Software Quality Management, Software Quality Models and Testing, Software Engineering

### **Languages**

C, C++, SQL, HTML, Core Java

<b><u>Educational Qualification</u></b>	<b><u>Name of Institution</u></b>	<b><u>Year</u></b>	<b><u>Percentage</u></b>
<b>M.E. (Comp. Sc. &amp; Engg.)</b>	Punjab University, Chandigarh	2011	82
<b>B.Tech. (Comp. Sc. &amp; Engg.)</b>	Kurukshetra University, Haryana	2008	78

### **Experience: 4.5 Years**

<b>Organisation</b>	<b>Designation</b>	<b>Duration</b>
Sri Guru Granth Sahib World University, Fatehgarh Sahib	Assistant Professor	3 Years (Dec,11-Till Date)
Dr. B. R. Ambedkar N.I.T., Jalandhar	Assistant Professor	5 Months (Aug,11- Dec,11)
Emax Group of Institutes, Ambala	Lecturer	1 Year (August, 08-August, 09)

**M.E. Thesis:**

Audio Mining: Feature Extraction and Comparison of Various Methods of Classification of Audio Data

**Projects Undertaken:-****INSTITUTE**

National Information Center (NIC),  
Chandigarh

Alpha Net Technologies Pvt. Ltd.,  
Chandigarh.

**PROJECT**

Prototype For Online Exam Using ASP.Net

Report Generator Using Core Java

**Administrative Responsibilities**

- Member of Board of Studies for C.S.E. Syllabus
- Handling the time-table of the department of the university.

**Awards and Recognitions**

- Silver Medal in National Mathematics Olympiad Contest.
- Awarded in various extempore, debates and declamation contests.
- Awarded and appreciated for writing skills at various events.
- Successfully organized various technical and cultural events.

## **List of Publications**

1. Shruti Aggarwal, Naveen Aggarwal, "Challenges and Issues in Speech Information Retrieval", Proceedings of 5th Chandigarh Science Congress (CHASCON), Feb 2011
2. Shruti Aggarwal, Naveen Aggarwal, "Minimal Audio Feature Set Extraction for Better Classification of Audio Data", International Journal of Computer Science, IAENG, ISSN: 1816-0948 (online version); 1816-093X, (print version), 2011
3. Shruti Aggarwal, Naveen Aggarwal, "Classification of Audio Data using Support Vector Machine", International Journal of Computer Science & Technology, Vol. 2 Issue 3, ISSN: 0976-8491 (online), 2229-4333 (Print), September, 2011 .
4. Shruti Aggarwal, Naveen Aggarwal," Feature Extraction and Comparison of Classification Models For Audio Data", International Journal of Data Mining & Knowledge Management Process (IJDMP) ISSN : 2230 - 9608[Online]; 2231 - 007X [Print], 2011
5. Shruti Aggarwal, Salloni Singla, " *Review Paper on Punjabi Text Mining Techniques*" , International Journal of Computer Science & Technology, Vol. 4 Issue 2, ISSN 0976-8491 (Online), ISSN 2229-4333 (Print) , April-June 2013
6. Shruti Aggarwal, Babita Rani," *A Survey of Association Rule Mining Using Genetic Algorithm*", International Journal of Computer Science & Technology, Vol. 4, Issue 2, ISSN : 0976-8491 (Online), 2229-4333 (Print) , April - June 2013.
7. Shruti Aggarwal, Devinder Kaur ," *Naïve Bayes Classifier with Various Smoothing Techniques for Text Documents*, "International Journal of Computer Trends and Technology , Vol. 4, issue 4, ISSN: 2231-2803, April 2013.
8. Shruti Aggarwal, Ranveer Kaur, "*Comparative Study of Various Improved Versions of Apriori Algorithm*", International Journal of Engineering Trends and Technology, Vol. 4, Issue 4, ISSN: 2231-5381, April 2013.
9. Shruti Aggarwal, Parneet Kaur, "*Comparative Study of Page Ranking Algorithms for Web Mining* " , International Journal of Computer Trends and Technology , Vol. 4, Issue 4, ISSN: 2231-2803, April 2013.
10. Shruti Aggarwal, Janpreet Singh, "Survey on Outlier Detection in Data Mining", International Journal of Computer Applications (IJCA), Vol. 67, No 19, ISBN: 973-93-80874-19-1, April 2013.
11. Gagandeep Kaur, Shruti Aggarwal, "A Survey of Genetic Algorithm for Association Rule Mining", International Journal of Computer Applications, Vol. 67, No.20, ISSN: 0975–8887, April 2013.

12. Prabhdeep Kaur, Shruti Aggarwal, "Comparative Study of Clustering Techniques", International Journal For Advance Research In Engineering And Technology, Vol. I, Issue 3, ISSN 2320-6802, April 2013
13. Ranveer Kaur, Shruti Aggarwal, "Techniques for Mining Text Documents", International Journal of Computer Applications, Vol. 66, No.18, ISSN: 0975-8887, March 2013.
14. Salloni Singla, Shruti Aggarwal, "Mining Punjabi Text Using Clustering and Classification Techniques", International Journal of Computer Science & Technology, Vol. 4, Issue 1, ISSN: 0976-8491 (Online), 2229-4333 (Print), Jan-March, 2013.
15. Ranveer Kaur, Shruti Aggarwal, "Association Rule Mining for Punjabi Text" , International Journal of Computer Science and Technology, Vol. 4, Issue 1, ISSN: 0976-8491 (online), 2229-4333 (Print), Jan- March 2013.
16. Gurpreet Kaur, Shruti Aggarwal, "A Survey- Link Algorithm for Web Mining ", International Journal of Computer Science & Communication Networks, Vol. 3, Issue 2, Pg 105-110, ISSN: 2249-5789, 2013
17. Shruti Aggarwal, Babita Rani," Optimization of Association Rule Mining Process using Apriori and Ant Colony Optimization Algorithm", International Journal of Current Engineering and Technology, Vol. 3, Issue 2, ISSN 2277-4106, , June 2013
18. Shruti Aggarwal, Babita Rani," Review of Association Rule Mining using and Ant Colony Optimization Algorithm", International Journal of Electronics and Communication Technology, Vol. 4, Issue 2, ISSN 2230-7109(Online), 2230-9543 (Print) , June 2013
19. Deepika Goyal ,Shruti Aggarwal ,"Review paper of integration of Association Rule Mining with ACO using Decision Tree for high resolution image Classification", in International Journal Computer Science and Telecommunication(IJCST), Vo1, Issue2, ISSN:2347-8578, Nov-Dec 2013,.
20. Gurdeep Singh, Shruti Aggarwal, "Audio Classification Based on Association & Hybrid Optimization Technique", Engineering Applications of Artificial Intelligence, ELSEVIER, ISSN: 0952-1976, 2014, *Communicated*.
21. Parminder Singh, Shruti Aggarwal, "Review on Various Enhanced K-means Clustering Algorithms," *Proceedings National Conference on Emerging Horizons in Science & Technology*, pp.138, 17-18, Jan 2014.
22. Shruti Aggarwal , Parminder Singh, "Comparative Study of Various Enhanced K-Means Clustering Algorithms," *International Journal on Computer Science and*

- Technology*, Vol. 5, Issue 1, pg. 179-187, ISSN: 0976-8491(Online), 2229-4333(Print) , Jan-March 2014.
23. Parminder Singh, Shruti Aggarwal, "A New Hybrid K-Means Clustering Algorithm," *International Journal of Data Mining & Knowledge Management Process*, Vol. 5, Issue 5, ISSN: 2230-9608 (Online), 2231-007X (Print) , Sept. 2014
  24. Deepika Goyal , Shruti Aggarwal" *Integration of Association Rule Mining with ACO using Decision Tree for high resolution image Classification*", National Conference on Emerging Horizon in Science and Technology , in S.G.G.S.W.U , Fatehgarh Sahib, April 2014
  25. Dilpreet Kaur, Shruti Aggarwal "Review on Text Clustering Using Statistical and Semantic Data," *International journal of Computer Science Trends and Technology*, Vol. 2, Issue 3, ISSN: 2347-8578, May-June 2014.
  26. Kamaljit Kaur, Shruti Aggarwal, "Review on Sentence-Level Clustering Using Fuzzy Relational Clustering Algorithm," *International Journal for Scientific Research and Development*, ISSN: 2319-7064, 2014.
  27. Nirmal Singh, Shruti Aggarwal , "Review on Knowledge Extraction Using Classifier", *IJSRD - International Journal for Scientific Research & Development* | Vol. 2, Issue 06, ISSN (online): 2321-0613, 2014
  28. Gurdeep Singh, Shruti Aggarwal, "Mining Audio Data: Techniques and Applications", *National Conference on Emerging Horizons in Science & Technology (EHST), EHST 14/CC/012*, pp. 137, Jan 2014
  29. Gurdeep Singh, Shruti Aggarwal, "A Survey of Association Rule Mining Using Ant Colony Optimization & Genetic Algorithm", *International Journal of Computer Science and Technology (IJCST)*, Vol. 5, Issue 3, ISSN: 0976-8491 (Online), 2229-4333 (Print), pp. 111-116, July-Sept., 2014.
  30. Rupinder Kaur, Shruti Aggarwal, "Review on Video Mining", *International Journal of Computer Science Trends and Technology (IJCST)*, Vol. 2 Issue 3, May-Jun 2014
  31. Prabhjit Singh Sekhon, Shruti Aggarwal , "Focused Web Crawling Using Neural Network, Decision Tree Induction and Naïve Bayes Classifier", *International Journal of Computer Science & Technology*, Vol. 5, Issue 3, ISSN : 0976-8491 (Online) | ISSN : 2229-4333 (Print), July - Sept 2014