

## SAPTARSI GOSWAMI

### ACADEMIC RECORD:

Degree	University	Year	Remarks
Ph.D.	AKCSIT,CU	2013-2018	Supervisors - Dr. Amlan Chakrabarti (Dean, Technology, University of Calcutta) and Dr. Basabi Chakraborty (Professor, Iwate Prefectural University, Japan)
M.Tech. in Computer Science & Applications	AKCSIT, CU	2008-2011	Rank 2 <sup>nd</sup>
Diploma in Business Finance	ICFAI	2004-2005	Gold Medalist in Group B
B.E. in Electronics & Communication Engineering	Malviya Regional Engineering College (M.R.E.C.), Jaipur	1997-2001	JEE Rank 727
Higher Secondary-10+2 (WBBSE)	The Scottish Church College, Kolkata	1995-1997	
Madhyamik - 10 (WBBSE)	The Scottish Church School, Kolkata	1995	

### EXPERIENCE SUMMARY

Company	Period	Designation
A.K. Choudhury school of IT, University of Calcutta	Apr, 2017 – Till date	Assistant Professor (Contractual)
Iwate Prefectural University	Mar 2019 – Mar 2019	Visiting Scientist
Institute of Engineering and Management	Feb 2012 – Apr, 2017	Assistant Professor
Cognizant Technology Solution Ltd	Nov 2007 – Feb 2012	Senior Manager – Projects
PwC Ltd	Feb 2006 – Oct 2007	Consultant
Tata Infotech Ltd	Nov 2003 – Jan 2006	Sr. Software Engineer

V Net Corporation	Mar 2002 – Oct 2003	Network Engineer
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### INDUSTRY SUMMARY HIGHLIGHTS:

- 10 + years of experience in companies like Tata Infotech, PwC and Cognizant.
- Worked and lead a team (100 +) to build a large scale data warehousing solution.
- Sound understanding of data warehousing principles
- Proficient in database technologies like Teradata, Oracle and SQL Server
- Has exposure to data modeling and ETL Technologies like Informatica, SSIS etc.

### LINKEDIN PROFILE:

<https://www.linkedin.com/in/dr-saptarsi-goswami-93073661/>

### RESEARCH HIGHLIGHTS:

- Mainly worked on Machine Learning (feature selection). The thesis title “Clustering and Meta-feature based approaches for feature selection”.
- Has 40+ articles in journals, conferences and book chapters with 250+ citation and H-index of 8 (Selected publication list is enclosed below)
- Has guided 15+ research students in the post-graduation level for last 5 years
- Acting as Co-Principal Investigator (CO- PI)

### PUBLICATION (SELECTED)

GOOGLE SCHOLAR LINK: <https://scholar.google.co.in/citations?user=QC2MzjgAAAAJ>

### JOURNAL

1. Goswami S, Chakrabarti A, Chakraborty B. An empirical study of feature selection for classification using genetic algorithm. International Journal of Advanced Intelligence Paradigms. 2018;10(3):305-26. (SJR 0.2)
2. Goswami S, Das AK, Guha P, Tarafdar A, Chakraborty S, Chakrabarti A, Chakraborty B. An approach of feature selection using graph-theoretic heuristic and hill climbing. Pattern Analysis and Applications. 2017:1-7. (Impact Factor: 1.4)
3. Das AK, Goswami S, Chakrabarti A, Chakraborty B. A new hybrid feature selection approach using feature association map for supervised and unsupervised classification. Expert Systems with Applications. 2017 Dec 1;88:81-94.(Impact Factor: 3.9)
4. Goswami S, Das AK, Chakrabarti A, Chakraborty B. A feature cluster taxonomy based feature selection technique. Expert Systems with Applications. 2017 Aug 15; 79:76-89.(Impact Factor: 3.9)
5. Goswami S, Chakrabarti A, Chakraborty B. An efficient feature selection technique for clustering based on a new measure of feature importance. Journal of Intelligent & Fuzzy Systems. 2017 Jan 1;32(6):3847-58.(Impact Factor : 1)
6. Goswami S, Chakraborty S, Ghosh S, Chakrabarti A, Chakraborty B. A review on application of data mining techniques to combat natural disasters. Ain Shams Engineering Journal. 2016 Apr 16. (SJR: 0.63)
7. Goswami S, Chakrabarti A, Chakraborty B. A Proposal for Recommendation of Feature Selection Algorithm based on Data Set Characteristics. J. UCS. 2016 Jun 1;22(6):760-81 (Impact Factor: 0.5)

## CONFERENCE

1. Choudhury SD, Goswami S, Bashyam S, Samal A, Awada T. Automated Stem Angle Determination for Temporal Plant Phenotyping Analysis. In Computer Vision Workshop (ICCVW), 2017 IEEE International Conference on 2017 Oct 1 (pp. 2022-2029). IEEE.
2. Das AK, Goswami S, Chakraborty B, Chakrabarti A. A Graph-Theoretic Approach for Visualization of Data Set Feature Association. In Advanced Computing and Systems for Security 2017 (pp. 109-124). Springer, Singapore.
3. Goswami S, Chakrabarti A, Chakraborty B. Analysis of correlation structure of data set for efficient pattern classification. In Cybernetics (CYBCONF), 2015 IEEE 2nd International Conference on 2015 Jun 24 (pp. 24-29). IEEE.
4. Mitra A, Goswami S, Chakraborty B, Jalan A and Chakrabarti A. A time series clustering technique to analyze the stock market movement after the budget announcement, International conference on Time Series and Forecasting 2017

## Book Chapter

1. Goswami S, Das AK, Guha P, Tarafdar A, Chakraborty S, Chakrabarti A, Chakraborty B, Filter Based Feature Selection Methods using Hill Climbing Approach , Natural Computing for Unsupervised Learning

## Open Source Package

1. Subhasree Bose with contributions from Saptarsi Goswami. (2017).RSentiment: Analyse Sentiment of English Sentences. R packageversion 2.2. <https://CRAN.R-project.org/package=RSentiment>

## OTHER ACADEMIC AND RESEARCH ACTIVITIES:

- Acted as a Tutorial Co-Chair in MAMI 2017
- Acted as a Session Chair and Tutorial Speaker in ICDMAI 2018
- Acted as a Facilitator in the workshop “Data Analytics with R” organized by university of Calcutta in collaboration of Future Institute of Engineering and Management (FIEM) on 4<sup>th</sup> and 5<sup>th</sup> January, 2018.
- Acted as a Facilitator in the workshop “Machine Learning and Data Analysis using R (MLDA)” organized by university of Calcutta in collaboration of Future Institute of Engineering and Management (FIEM) on 29<sup>th</sup> January to 31<sup>st</sup> January, 2019.
- Acted as Facilitator in the Workshop “Python Programming and Introduction to Machine Learning” as Bhawanipur education society college from 25<sup>th</sup> February to 27<sup>th</sup> February 2019
- Acted as a Facilitator in a workshop “Data Analytics using R’ organized in IISWBM Kolkata in 2019
- Acted as convener of 1 Day workshop on Data Science and Joint Convener of 1 workshop on contemporary tools in web development (Under TEQUIP III)
- Acted as reviewer for 1st International Conference on Contemporary Advances in Innovative & Applicable Information Technology (ICCAIAIT - 2018), and International Conference on Intelligent Systems and Information Management (ICISIM – 2017),
- Acted as reviewer to journals named International Journal of Disaster Risk Reduction (Elsevier), Journal of Experimental & Theoretical Artificial Intelligence (Taylor and Francis), Current Bioinformatics
- Acting as an executive member of the governing body of MUST Research club (<http://must.co.in/>)
- Working as a consultant to Genpact for a joint project
- Acting as the tutorial and workshop chair for ICDMAI 2019

- Acting as a coordinator and convener of a Data Science meetup program, which involves 100 + member group consisting of researchers from both inside and outside University of Calcutta, as well as people from other software companies

## PERSONAL DETAILS:

<b>Date of Birth</b>	July 30, 1979
<b>Nationality:</b>	Indian
<b>Address:</b>	124 APC Road Kolkata 700006

## REFERENCE:

<b>Name</b>	<b>Position</b>	<b>Contact</b>
Prof. Amlan Chakrabarti	<b>Dean, Faculty of Engineering and Technology,</b> <b>Professor &amp; Director,</b> A.K. Choudhury School of I.T. University of Calcutta.	<a href="mailto:achakra12@yahoo.com">achakra12@yahoo.com</a> , <a href="mailto:acakcs@caluniv.ac.in">acakcs@caluniv.ac.in</a>
Prof. Basabi Chakraborty	Faculty of Software and Information Science Iwate Prefectural University 152-52 Sugo, Takizawa city, Iwate Japan 020-0693	<a href="mailto:basabi@iwate-pu.ac.jp">basabi@iwate-pu.ac.jp</a>
Prof. Bhasawati Ganguli	Professor, Statistics University of Calcutta.	bgstat@gmail.com
Prof. Amlan Kusum Nayak	Principal Institute of Engineering and Management	<a href="mailto:principal@iemcal.com">principal@iemcal.com</a>