

# RESUME



## DR AVIJIT DATTA

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**Objective:** I would like to explore my skill, knowledge and experience in an organization where there is ample opportunity for growth of self and the organization with congenial atmosphere.

### Work Experience:

1. Currently working as **System Administrator** at **Cooch Behar Panchanan Barma University** from **1<sup>st</sup> October, 2019** to till date.
2. Worked at **Siliguri Institute of Technology** from **25<sup>th</sup> July 2008 to 30<sup>th</sup> September 2019** as **Assistant Professor Gr. II.** in Department of Computer Applications.
3. **Head of the Department of Computer Application, Siliguri Institute of Technology** from 13<sup>th</sup> January 2015 to 9<sup>th</sup> February 2017.
4. **XSinfoways, Daryaganj** from **17<sup>th</sup> July 2006 to 19<sup>th</sup> July 2008** as a Sr. **Web Developer.**
5. **Akros Technology Pvt. Ltd.** Kolkata from **7<sup>th</sup> November 2005 to 14<sup>th</sup> July 2006** as a **Programmer.**
6. Having good knowledge of FTP, File Handling in PHP. Also having Media, HRM as domain knowledge.

### Ph.D. Thesis:

- ⊙ **Award:** Degree awarded on 20.02.2020 from University of North Bengal.
- ⊙ **Title:** EXPLORING NEW APPROACHES TOWARDS DESIGN OF BLOCK CIPHER TESTING ALGORITHMS.
- ⊙ **Stream:** Cryptology.
- ⊙ **Sub Stream:** Block Cipher Testing.

### Research Association:

- ⊙ Holding responsibility as **Reviewer** for International Journal of Information Communication Technologies and Human Development (IJICTHD) under IGI Global Publishing USA, ISSN: 1935-5661, DOI: 10.4018/IJICTHD and enlisted **UGC Care List 2021.**
- ⊙ Holding responsibility as **Reviewer** for International Journal of Cyber Behavior, Psychology and Learning (IJCPL) under IGI Global Publishing USA, ISSN: 2155-7136, DOI: 10.4018/IJCPL and indexed in **SCOPUS 2021.**

### Invited Lectures and Workshops:

1. **A Special Lecture on IP Commercialization and Technology Transfer, IP Ethics and Responsible Practice, IP Challenges** in "One Day Symposium on Navigating Intellectual Property Rights in Academia" Organized by Sitalkhuchi College, Sitalkhuchi on 16.06.2023.
2. **Lecture Program on "Application Development Logic with LAMP/WAMP"** as a part of Add-on Course on 'Knowledge Acquisition for Understanding Development', organized by Coochbehar College on 2022-05-30.

3. **Special Lecture on Impact of ICT on Generations of Community Network**, Organized by Department of Lifelong Learning and Extension, University of North Bengal on 2022-04-22.
4. **Special Lecture on ICT for Social Sciences**, Organized by Department of Lifelong Learning and Extension, University of North Bengal on 2021-11-20.
5. **Resource Person for the Topic: Network Securities**, National Webinar on "Emerging Trends in Multimedia Technologies and Network Security", organized by Department of Computer Science, Coochbehar College on 10.07.2021.
6. **Resource Person for Lecture Program on Cryptography, One Day Lecture Session for UG 6th Semester Students** of Coochbehar College, Organized by Department of Computer Science, Coochbehar College on 2021-07-07.
7. **Special Lecture and 3 Days Workshop on Web Technology and Cloud Computing**, organized by Department of Computer Science, St. Joseph's College on 2019-03-15.

#### **Communicated Papers:**

1. **A New Approach for Measuring SKAC using Bit Relationship Test**, Dipanjan Bhowmik, Avijit Datta, Sharad Sinha, Design, Codes and Cryptography, Srpinger US, ISSN: 1573-7586.

#### **Published Book Chapter:**

1. **Empirical Paradigm of Education Through Online: Pros and Cons**, Avijit Datta, Sidhartha Sankar Laha, Education in India Impact of Covid-19 Crisis and Contemporary Issue, Serials Publications (P) Ltd., New Delhi, 351-362, ISBN: 978-93—91844-22-6

#### **Published Papers:**

1. **GENERATIONS AND REVOLUTIONS OF THE INFRASTRUCTURES FOR COMMUNITY NETWORK**, Avijit Datta, International Journal Multidisciplinary Research (IJFMR), Vol.7, Issue.2, ISSN: 2582-2160, <https://doi.org/10.36948/ijfmr.2025.v07i02.23767>
2. **A Novel Technique for SAC Analysis of S-Box for Boomerang-Style Attacks**, Avijit Datta, Dipanjan Bhowmik, Sharad Sinha, International Journal of Computer Sciences and Engineering, Vol.7, Issue.5, pp.7-13, 2019, ISSN:2347-2693, <https://doi.org/10.26438/ijcse/v7i5.713>.
3. **A New Approach towards Confusion Analysis of S-boxes using Truncated Differential Cryptanalysis**, Avijit Datta, Dipanjan Bhowmik, Sharad Sinha, International Journal of Computer Sciences and Engineering, Vol.7, Issue.1, pp.249-256, 2019, ISSN:2347-2693, <https://doi.org/10.26438/ijcse/v7i1.249256>
4. **Implementation of SAC Test for Analyzing Confusion in an S-BOX Using a Novel Technique**, Avijit Datta, Dipanjan Bhowmik, Sharad Sinha, International Journal of Scientific Research in Computer Science Applications and Management Studies, Vol. 7 Issue 3 No. 182, ISSN: 23191953
5. **A New Perspective of Inferring from the Output of Linear Cryptanalysis Attack**, Dipanjan Bhowmik, Avijit Datta, Sharad Sinha, International Journal of Computer Sciences and Engineering, Vol. 5, Issue-2, pp.38-42, Feb 2017, ISSN:2347-2693.
6. **An Approach towards Analyzing Strict Key Avalanche Criterion of Block Cipher**, Dipanjan Bhowmik, Avijit Datta, Sharad Sinha, 'International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE)' Vol. 4, Issue 6, pp.11640-11644, June 2016, ISSN: 2320-9801, DOI: 10.15680/IJIRCCE.2016. 0406258.
7. **A Novel Technique for Analyzing Confusion Characteristics in S-Boxes**, Avijit Datta, Dipanjan Bhowmik, Sharad Sinha, 'International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE)' Vol. 4, Issue 6, pp.11608-11615, June 2016, ISSN: 2320-9801, DOI: 10.15680/IJIRCCE.2016. 0406258.
8. **A Novel Scheme for Analyzing Confusion Characteristics of Block Ciphers**, Dipanjan Bhowmik, Avijit Datta, Sharad Sinha, 'First International Conference on Intelligent Computing and Communication (ICIC2)' and published in Advances in Intelligent Systems and Computing 458 of

Springer International Publishing Switzerland, Vol. 1, pp. 635-642, 2017, DOI 10.1007/978-981-10-2035-3\_64.

**9. Measuring the Diffusion Characteristic of Block Ciphers: The Bit Relationship Test (BRT)**, Dipanjan Bhowmik, Avijit Datta, Sharad Sinha, International Journal of Computer Sciences and Engineering, Volume-3, Special Issue-1, Pp: 76-80, 2015.

**10. A Bit-Level Block Cipher Diffusion Analysis Test – BLDAT**, Dipanjan Bhowmik, Avijit Datta, Sharad Sinha, Springer International Publishing Switzerland 2015, Vol. I, pp. 667-674, Advance in Intelligent Systems and Computing 327 of Springer International Publishing Switzerland, DOI: 10.1007/978-3-319-11933-5\_75.

**Detail of Membership of Professional Body:**

Sl.	Professional Body	Membership Id
1	ACM	6525902
2	International Association of Engineers	155091
3	International Association of Computer Science and Information Technology	80350633
4	International Association of Academicians - IAASSE	IAASSE10489

**Details of Participated Training:**

Sl.	Description	University/Institute/Organization Name	From	To
23	Awareness/Training Program under "National Intellectual Property Awareness Mission"	Intellectual Property Office, Office of the Controller General of Patents, Designs and Trade Marks, Department of Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, Government of India	10.06.2022	10.06.2022
22.	One Day National Webinar on "National Education Policy-2020: Prospects & Problems"	West Bengal University Officers' Association	30.08.2020	30.08.2020
21.	<b>Sessions on</b> a. Technology & Environment b. Internet of Things- Things Made Easy c. IT Trends 2020- An Experimental Review d. Cyber Securities- Secure Yourself First e. e-Entrepreneurship	Prestige Institute of Management & Research, Indore	24.08.2020	30.08.2020
20.	Two-week Online Faculty Development Program on "Information Security with Machine Learning"	Dept. of CSE, Meghnad Saha Institute of Technology in association with All India Eminent Faculty Council of Engineering, Management & Technology and Engineering and Management College Teachers Development Association.	21.08.2020	30.08.2020

19.	Spit Free India Movement	NSS, University of North Bengal	June, 2020	Aug, 2020
18.	State Level Webinar on "Digital Divide and Role of Libraries During COVID-19 Pandemic"	Ramananda College, Bankura and Garbeta College, Garbeta	19.08.2020	19.08.2020
17.	International Webinar on "Future Generation Computing Systems"	Mahishadal Raj College	17.08.2020	18.08.2020
16.	Webinar on "Towards Inclusive Innovations and Network-based Entrepreneurship"	Mizoram University	10.08.2020	10.08.2020
15.	One Week Online International Faculty Development Program on "Technologies of Societal Needs, Real time application of AI, ML and Research Initiatives"	Dept. CSE, Karunya Institute of Technology and Sciences, Tamil Nadu and Dept. CSE, North Eastern Regional Institute of Science and Technology, Arunachal Pradesh association with IEEE and CSI	03.08.2020	07.08.2020
14.	Efficacy and Importance of IT in COVID Pandemic Condition	Department of Computer Science and Applications, Malda College, Malda	28.07.2020	28.07.2020
13.	2 <sup>nd</sup> National Webinar on Library Network	Visva-Bharati Library Network, Visva-Bharati	16.06.2020	29.06.2020
12.	One-day National Webinar on LIVING WITH COVID-19	West Bengal University Officers' Association	28.06.2020	28.06.2020
11.	SAKSHAM – IT Champion Training Program	Microsoft Saksham	30.08.2016	31.08.2016
10.	<b>Two-week ISTE WORKSHOP on Computer Programming</b>	<b>IIT, Bombay under NMEICT (MHRD)</b>	May, 2014	June, 2014
9.	<b>WORKSHOP COORDINATOR of Two-week ISTE Workshop on Computer Networking</b>	<b>IIT, Bombay under NMEICT (MHRD)</b>	28.05.2014	05.07.2014
8.	<b>Two-week ISTE Workshop for Coordinators</b>	<b>IIT, Bombay under NMEICT (MHRD)</b>	05.05.2014	09.05.2014
7.	One Day Seminar on DATA MINING	Dept. of CSE & IT, SIT	14.09.2013	14.09.2013
6.	Workshop on Application of Information Technology in the Modern Civilization	St. Joseph's College, Darjeeling and Computer Society of India, Siliguri Chapter	15.05.2013	15.05.2013

5.	Two-Days Workshop on Computational Methodologies and Applications (CMA-2013)	Dept. of CSE, University of Kalyani sponsored by West Bengal State Council of Higher Education	22.04.2013	23.04.2013
4.	<b>UGC Sponsored Orientation Course</b>	<b>Academic Staff College, Banaras Hindu University (BHU)</b>	04.01.2013	31.01.2013
3.	Short Term Training Program (STTP) on "Introduction to Linux"	NITTTR, Kolkata	05.11.2012	09.11.2012
2.	Short Term Training Program (STTP) on "Theory of Formal Languages & Automata"	NITTTR, Kolkata	29.10.2012	02.11.2012
1.	Research Scholars' Workshop on Computer Science and Application	Salesian College, Siliguri and Computer Society of India, Siliguri Chapter	11.09.2012	11.09.2012

**Skill Sets:** UNIX/Linux, Operating System, Networking, PHP 4/5, MySql 4.1/5, DBMS.

**Web Server:** Apache.

**Tools:** Dreamweaver MX, Edit Plus.

**Languages Known:** C (Turbo), JavaScript, HTML (Including CSS), AJAX.

**Interest:** Software Testing, JSP.

**Academic Qualification:**

<b>Qualification</b>	<b>University/Board</b>	<b>Year of Passing</b>	<b>Marks Obtained</b>
Ph.D.	University of North Bengal.	2020	----
Ph.D. Course Work.	University of North Bengal.	2012	67%
Master of Computer Application (MCA).	U.P. Technical University, Lucknow.	2005	72%
Bachelor of Science.	Calcutta University.	2002	49%
Higher Secondary (12 <sup>th</sup> ).	West Bengal Council of Higher Secondary Education.	1999	61%
Secondary (10 <sup>th</sup> ).	West Bengal Board of Secondary Education.	1997	61%

**Personal Profile:**

Father's Name : Mr. Sankar Lal Datta.

Permanent Address : Opp. 45/8, Baghajatin Colony  
Pradhan Nagar; Siliguri-734403.

Extra Curricular : Registered Professional District **Cricket Umpire** under "Siliguri Referees and Umpires Association".

Interests : Reading News Paper, Playing **Cricket & Chess**.

Passport Status : Passport No.-P9747766 of "Republic of India" (Expiry: 20.04.2027).

**Date: 24-Apr-25**  
**Place: Siliguri**

*Avijit Datta*

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