# CURRICULUM VITAE

| | |
|---|---|
| **Name** | Dr. Abhijit Paul |
| **Qualification** | Ph.D., MCA, BSc(H) |
| **Designation, Department and School** | Associate Professor, Department of Computer Science |

| | |
|---|---|
| **Subject teach** | <ul><li>Data Communication and Computer Networks</li><li>Routing and Switching Essentials/Fundamentals of Routing Protocols</li><li>Mobile Computing</li><li>Operating System</li><li>Core Java</li><li>Programming in C</li></ul> |
| **Research Interest** | <ul><li>IoT Technology</li><li>Sensor Network</li></ul> |
| **Experience** | 9 years |
| **Publications** | **(A) JOURNAL**<br><br>1. Guha, Priyadarshi, Sukanya Kool, Rishabh Pipalwa, Aakash Acharjee, and **\*Abhijit Paul**. "A prototype model of an unmanned automated railway level crossing traffic control system using ultrasonic and infrared sensors." International Journal of Wireless and Mobile Computing 26, no. 4 (2024): 342-353. *(2024)*(**Scopus indexed**) DOI: 10.1504/IJWMC.2023.10062691<br><br>2. Acharjee, Aakash, Sabyasachi Mondal, Rishabh Pipalwa, Arjun Mitra, and *\*Abhijit Paul*. "Exploring the evolving landscape of security threats in IoT: Challenges and |

Countermeasures." *American Journal of Advanced Computing*, Vol. 2, Issue: 2, pp: 1-4 (2024). DOI:https:// doi.org/10.15864/ajac.22013

3. Chakma, Samar Bijoy, Rishabh Pipalwa, Sabyasachi Mondal, Abhijit Pandit, and \***Abhijit Paul**. "Optimizing Dynamic Ride Sharing with Multiple Objectives." *SN Computer Science* 4, no. 6 (2023): 814.**(Scopus indexed)** DOI:https://doi.org/10.1007/s42979-023-02230-0

4. Guha, Priyadarshi, Sukanya Kool, and \***Abhijit Paul**. "An automatic accident detection system for trains using onboard monitoring system." *International Journal of Wireless and Mobile Computing* 25.2 (2023): 171-182. **(Scopus indexed)** DOI:https://doi.org/10.1504/IJWMC.2023.133067

5. Rishabh Pipalwa, \***Abhijit Paul**, \*Tamoghna Mukherjee,"Prediction of Heart Disease Using Modified Hybrid Classifier", *Informatica*, vol. 47, no. 1, 2023.**(Scopus indexed)** DOI: https://doi.org/10.31449/inf.v47i1.3629

6. \***Abhijit Paul**, Prodipto Das,"Comparative performance analysis of IEEE 802.15.4 in WSN using NS2", *Int. Jour. of App. Sc. and Eng. (IJASE)*, pp. 13-20, vol. 3, no. 1, 2015. DOI: 10.5958/2322-0465.2015.00003.9

7. \***Abhijit Paul**, Prodipto Das,"Flood Prediction Model using Artificial Neural Network", *International Journal of Computer Applications Technology and Research*, pp. 473 - 478, vol. 3, Issue 7, 2014.

8. \***Abhijit Paul**, Prodipto Das,"Energy Efficient Routing Strategy for Wireless Sensor Networks", *International Journal of Engineering Research & Technology (IJERT)*, pp. 2530-2535, vol. 2, Issue 12, 2013.

9. \*P Das**, A Paul**,"Design of Flood Monitoring System in Assam using Wireless Sensor Network", *AU Journal of Science and Technology*, pp. 44-52, vol. 10, no. II, 2012.

## (B) CONFERENCE PROCEEDINGS:

1. **Paul, A**., Pipalwa, R., & Gupta, M. (2024). Water Distribution Network Using IoT Sensors for Residential Areas from Household Rainwater. In International Conference on Emerging Applications of Information

| | |
|---|---|
| | Technology (pp. 375-388). Singapore: Springer Nature Singapore. https://doi.org/10.1007/978-981-97-7532-3_27 <br><br> 2. Pipalwa, R., **Paul, A**., Mukherjee, T., & Jain, A. (2023). Efficient Heart Disease Prediction Using Modified Hybrid Classifier. In Frontiers of ICT in Healthcare: Proceedings of EAIT 2022 (pp. 151-164). Singapore: Springer Nature Singapore.**(Scopus indexed)** https://doi.org/10.1007/978-981-19-5191-6_13 <br><br> 3. **\*Paul A**., Guha P. (2022) Internet of Things-Based Animal Health Monitoring and Management. In: Mandal J.K., Buyya R., De D. (eds) Proceedings of International Conference on Advanced Computing Applications. Advances in Intelligent Systems and Computing, vol 1406. Springer, Singapore. https://doi.org/10.1007/978-981-16-5207-3_1 <br><br> ### (C) BOOK AND BOOK CHAPTER <br><br> 1. Published book chapter title: "**IoT security enhancement through blockchain solutions**" in Hybrid Information Systems:Non-Linear Optimization Strategies with Artificial Intelligence, ISBN 9783111329796 by Walter de Gruyter GmbH & Co KG, July 22, 2024. DOI: https://doi.org/10.1515/9783111331133-009 <br><br> 2. Published book chapter title: "**IoT Networks For Healthcare**", in Medical Internet of Things Techniques, Practices and Applications (1st Edition), ISBN: 9780367331238, by Chapman and Hall/CRC, October 29, 2021. **(Scopus indexed)** DOI: 10.1201/9780429318078-7 |
| **Academic Awards** | NIL |
| | |
| **Journal Reviewer** | • *Multimedia tools and applications (Springer)* |

| | |
|---|---|
| | • *IEEE Internet of Things Journal* |
| **Other salient features** | |
| **Symposium/Workshop/ Conference/Seminar/We binar** | 1. Presented paper on "**Enhancing Ultrasonic-Based Distance Measurement Accuracy Through Error Correction Mechanism**" in the International Conference on 2024 IEEE Electron Device Kolkata Conference organized by IEEE EDS Kolkata Chapter held at Kolkata, India during 30 November -1st December 2024.<br><br>2. Presented paper on "**An optimized MARL-based strategy for green corridor patterns of emergency vehicles**" at the Second International Conference on Advanced Computing, Machine Learning, Robotics and Internet Technologies (AMRIT-2024) organised by the Department of Computer Science & Engineering and Department of Electrical Engineering, National Institute of Technology Agartala, Tripura, jointly organised by the Department of Computer Science, Assam University, Silchar, Assam, during November 8-9, 2024.<br><br>3. Attended FDP on "**Technological Breakthrough for Future Encounters**" at Amity University, Kolkata, India during 13-17 May 2024.<br><br>4. Presented paper on "**An RFID-based student monitoring and attendance tracking system**" in 14th Inter University Engineering, Science& Technology Academic Meet 2024 & Innovative Model Competition for a Sustainable Society organized by Forum of Scientists, Engineers & Technologists (FOSET)in association with MAKAUT, Indian Society for Technical Education, Association of Engineers, JIS College of Engineering on 12 May 2024.<br><br>5. Presented paper on "**Optimizing Wireless Data Transfer with Neural Network-Based Dynamic Channel Allocation**" in International Conference on Intelligent Electrical Systems & Industrial Automation (IESIA 2024) organized by the Department of Electrical Engineering and Electrical & Electronics Engineering of the Institute of Engineering& Management, Kolkata, West Bengal, India during 5-7 April 2024. |

| | |
|---|---|
| | 6. Co-author of the presented paper on "**Predictive Modelling for Diabetes Using LazyClassifier: A Machine Learning Approach**" in two-day Analytics Global Conference (AGC2024) organized by Analytics Society of India during 6 Mar-7 Mar 2024.<br><br>7. Attended FDP on "**Applications of Blockchain Technology**" at Institute of Engineering& Management, Kolkata during 29 Jan-2 Feb 2024.<br><br>8. Presented paper on "**Water Distribution Network using IoT sensors for residential areas from household rainwater**" in 8th International Conference on Emerging Applications of Information Technology (EAIT2024), organized by Computer Society of India, Kolkata Chapter and Electronics and Communication Department, Techno Main, Salt Lake during 11-13 January 2024.<br><br>9. Attended Online FDP on "**Application of Robotics in enhancing learning contents**" at National Institute of Technology Agartala under AICTE Training And Learning (ATAL) Academy during 5-9 July 2021.<br><br>10. Attended Online FDP on "**Internet of Things (IoT)**" at Mizoram University under AICTE Training And Learning (ATAL) Academy during 1-5 February 2021.<br><br>11. Presented paper online on "**Nav4Peds: A Design to Navigate Pedestrian Movement in Railway Station in Observance Social Distance Criteria**" at International web conference on recent trends and developments in applied research and industrial practices at Amity University Kolkata on 20-21 November 2020.<br><br>12. Attended workshop on "**Internet of Things**" at Indian Statistical Institute, Kolkata on 22-25 July 2019.<br><br>13. Attended FDP on "**Media Educators-Industry Interface**" organised by Amity School of Communication at Amity University Kolkata on 11-12 July 2019.<br><br>14. Presented paper on "**Faster data transfer using wireless network**" at Micro-2019: 6th International Conference on Microelectronics, Circuits & Systems at Amity University Kolkata on 6-7 July 2019.<br><br>15. Published paper on "**Signage recognition for visually impaired persons**" accepted in Young Scientists' Conference in India International Science Festival in the theme Frontier areas in Science in Indira Gandhi Pratishthan in Lucknow, India on 5-8 October 2018. |

| | |
|---|---|
| | 16. Attended workshop on "**Internet of Things Knowledge Workshop**" organised by the Department of Information Technology & Electronics, Government of West Bengal at Biswa Bangla Convention Centre, New Town, Kolkata on July 2018.<br><br>17. Attended workshop on "**Embedded Technology Knowledge Workshop**" organised by the Department of Information Technology & Electronics, Government of West Bengal at Biswa Bangla Convention Centre, New Town, Kolkata on June 2018.<br><br>18. Attended Workshop on "**Microwave: Basics and Applications**" organized by Department of Physics, Assam University, Silchar, India on July 2014.<br><br>19. Presented a paper on "**Energy Conservation Strategy in Wireless Sensor Networks**" in National Seminar on Energy Science and Engineering NSESE-2013, organized by Tripura Institute of Technology, Agartala, Tripura in Nov, 2013.<br><br>20. Published paper on "**Energy Efficient Routing Strategy for Wireless Sensor Networks for Rural Areas**" accepted in Second International Conference on Computing and Systems-2013, organized by Dept. of Computer Science, The University of Burdwan, West Bengal on 21-22 September 2013.<br><br>21. Published paper on "**Efficient Multimedia File Transfer in Wireless Local Area Network using AODV**", in International Conference on Communications, Devices and Intelligent System (CODIS 2012), organized by Dept. of Electronics & Telecommunication Engg., Jadavpur University (JU) Main Campus, Kolkata, India on 28-29 December 2012.<br><br>22. Attended Workshop on "**Information Security Education & Awareness**" organized by Dept. of Business Administration, Assam University, Silchar, India on April 2012.<br><br>23. Presented a paper on "**Flood Monitoring System in Barak River using Wireless Sensor Network**" in workshop on "Analog & Mixed Signal Design", under TEQIP-II, organized by Dept. of ECE, NIT Silchar, Assam on Jan 2012.<br><br>24. Presented a paper on "**Estimation of Rain Attenuation over DTH Antenna in India using DAH Model**" in International Conference on Advances in Electrical Engineering (ICAEE)-2011 in Dhaka, Bangladesh on 19-20 December 2011. |

| Contact | +91-9436363702 |
|---------|----------------|