DR. SWAGAT RANJAN SAHOO

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Scopus Id: 57475327100

Career Objective: "To LEARN AND GROW CONTINUOUSLY BY ACCEPTING ALL CHALLENGES WITH UPDATED TECHNOLOGIES. "

EDUCATION

Degree / Class	University/Board	Specialization/Subjects	C.P.I / Percentage	Year of Passing
Ph.D in Computer Science and Engineering	IIT Guwahati, Assam, India	VANETs and Cloud Computing	7.00	2025
M.Tech Computer Science and Engineering	MNNIT, Allahabad, India	Cloud Computing	7.12	2012
B.Tech in Computer Science and Engineering	BPUT, Bhubaneswar, Odisha, India	OS, DS, Programming, DBMS, CN	8.15	2010
XII	CHSE, Odisha, India	Physics, Chemistry, Mathematics, Biology	64 %	2005
X	BSE, Odisha, India	Math, Science, Geometry, Geography, English, Hindi, Odia	68.67 %	2003

TEACHING AND INDUSTRY EXPERIENCE

- Working as **Assistant Professor** in the Department of Computer Science and Engineering, **GL Bajaj Institute of Technology and Management,** Greater Noida, India since 23rd September 2024 **(8 Months)**.
- **Assistant Professor** in the Department of Computer Science and Engineering at **C.V. Raman Global University, Odisha, India** from 1st August 2012 to 31st July 2017 (**5 Years**).
- **Co-founder and developer** of **Anxious Vision Software Technologies LLP**. It was an IT-based startup in Bhubaneswar for the development of educational software, from December 2013 to November 2016.

- Worked on a project **"Underwater Computer Vision"** under the Technology Innovation Hub, IIT Guwahati, India from October 2022 to June 2024.
- Worked as Part-time **"Artificial Intelligence"** trainer at Ritvij Bharat Pvt. Ltd. (RBPL), Assam, India from August 2023 to January 2024.

Ph.D. Thesis Title: "Cost-efficient Load Balancing in Cloud-assisted Vehicular Networks"
Supervisor Details: Dr. Moumita Patra, Dept. of CSE, IIT Guwahati, India

M.Tech Thesis Title: "A Priority-based Batch Scheduling Method in Cloud Computing Environment"
Supervisor Details: Prof. Dharmendra Kumar Yadav, Dept. of CSE, MNNIT Allahabad, India.

SUBJECT OF INTEREST
- Cloud and Edge Computing
- Vehicular Ad-hoc Networks
- Operating System
- Machine Learning
- Web Technology

TECHNICAL SKILLS
- C, C++, Java
- Shell scripting
- Python (Numpy, Panda, Pytorch, and Gradio)
- WordPress
- git, LaTeX, SUMO

RESEARCH & PUBLICATIONS

INTERNATIONAL JOURNAL
- SAHOO, S. R., PATRA, M., & GUPTA, A. (2022). AALB: APPLICATION AWARE LOAD BALANCING ALGORITHM FOR ROAD SIDE UNITS. VEHICULAR COMMUNICATIONS, 36, 100475. (SCI JOURNAL)
- SINGH, A. K., SAMADDAR, S. G., SAHOO, S. R., & MATHEW, G. (2012). INCREASING ROBUSTNESS OF RC4 FAMILY FOR AUTOMATED SELECTION OF CIPHERSUITES. PROCEDIA ENGINEERING, 30, 45-52.

INTERNATIONAL CONFERENCE
- THAPA, S., SAHOO, S. R., PATRA, M., & GUPTA, A. A NOVEL COST-AWARE LOAD BALANCING ALGORITHM FOR ROAD SIDE UNITS IN INTERNET OF VEHICLES. 18TH INTERNATIONAL CONFERENCE ON NETWORK AND SERVICE MANAGEMENT (CNSM), 2022.
- SAHOO, S. R., PATRA, M., & GUPTA, A. (2021, JUNE). MDLB: A MATCHING BASED DYNAMIC LOAD BALANCING ALGORITHM FOR ROAD SIDE UNITS. IN 2021 INTERNATIONAL WIRELESS COMMUNICATIONS AND MOBILE COMPUTING (IWCMC) (PP. 291-296). IEEE.
- BARIK, R. K., LENKA, R. K., SAHOO, S. R., DAS, B. B., & PATTNAIK, J. (2018). DEVELOPMENT OF EDUCATIONAL GEOSPATIAL DATABASE FOR CLOUD SDI USING OPEN SOURCE GIS. IN PROGRESS IN ADVANCED COMPUTING AND INTELLIGENT ENGINEERING (PP. 685-695). SPRINGER, SINGAPORE.
- YADAV, V. K., SAHOO, S. R., & YADAV, D. K. (2012). RELIABLE TASK ALLOCATION IN DISTRIBUTED SYSTEM. IN PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING RESEARCH AND PRACTICE (SERP) (P. 1). THE STEERING COMMITTEE OF THE WORLD CONGRESS IN COMPUTER SCIENCE, COMPUTER ENGINEERING AND APPLIED COMPUTING (WORLDCOMP).

PATENT
- SR SAHOO, ET AL., A SYSTEM FOR EDGE-AWARE MACHINE LEARNING FRAMEWORK FOR CONTEXT-SWITCHING IN MULTI-MODAL IOT ENVIRONMENTS, INDIAN PATENT, PUBLISHED ON 9TH MAY 2025.

NOTE: TWO SCI JOURNAL AND TWO INTERNATIONAL CONFERENCE PAPERS UNDER REVIEW.

ACHIEVEMENTS/AWARDS IN TECHNICAL ACTIVITIES

- **TPC Member** in International Conference on Sustainability, Innovation & Technology (ICSIT 2025), Symbiosis University, Nagpur, India
- **Jury Member** of National Level Hackathon (HACKFEST'25) held at GL Bajaj Institute of Technology and Management, Greater Noida, UP, India on 26 April, 2025, organized in collaboration with SAP Labs India Pvt. Ltd & PSGiTech.
- **Reviewer** in the International Conference of Disruptive technologies (ICDT-2025) held at GL Bajaj Institute of Technology and Management, Greater Noida, UP, India from 7th March – 8th March 2025.
- Certification for **Python for Machine Learning** in April 2022.
- Reviewer of **IEEE Transactions on Mobile Computing**, 2021,2022
- **Representative of research scholars** of the CSE department in IIT Guwahati, India, July 2018 - June 2019
- In charge of **Supercomputer PARAM SHAVAK** from CDAC in CV Raman Global University, India, 2016
- Technical Head of **Smart India Hackathon** for Nodal Centre CV Raman Global University, India, 2017
- Two times **GATE** qualified (2012, 2010)
- Cleared **NIC Entrance** Examination in 2011
- Oracle Certified Associates (OCA), 2010

CONFERENCE, WORKSHOP, AND TRAINING ACTIVITIES

- **Session Chair** in the International Conference of Disruptive technologies (ICDT-2025) held at GL Bajaj Institute of Technology and Management, Greater Noida, UP, India from 7th March – 8th March 2025.
- Completed the faculty development program of **Generative AI** from 3rd February 2025 -8th February 2025, organised by IIT Kanpur.
- Completed faculty development program of **IoT with Drones** from 10th February 2025 -15th February 2025, organised by IIT Kanpur.
- Active volunteer in SERB-INAE workshop on "**Pedagogy Training for Teaching and Research Excellence**" Organized by the Department of Computer Science & Engineering, IIT Guwahati 15th March – 16th March, 2024.

- Active volunteer in Summer School on "**Machine Learning and Deep Learning**" conducted jointly by Center for Intelligent Cyber Physical System (CICPS) and Technology Innovation Hub (TIH) of IITG Technology Innovation & Development Foundation (TIDF) at IIT Guwahati, 26th June 2023 to 7th July 2023.
- Active member of the organizing committee and resource person in **ATELIER: AI for All Hands-on Workshop** during Research & Industrial Conclave - Integration'23 at IIT Guwahati, Assam India from 14th- 16th May 2023.
- Participated in the SPARC workshop on **Scaling Blockchains: from Bitcoin to the Lightning Network** at IIT Guwahati from 23– 25 Aug 2022.
- An active volunteer in the organizing committee in the International Conference, IEEE INDICON-2021 held at IIT Guwahati, Assam, India from 19-21 December 2021.
- Participated in SPARC workshop on **Blockchain Technologies and Decentralized Environments**, Aug 2021.
- An active volunteer in the organizing committee of the **3rd ISEA International Conference on Security and Privacy (ISEA-ISAP 2020**) in IIT Guwahati from 27 Feb - 1 Mar 2020.
- Participated in IEEE Tutorial Series for **Machine Learning and Deep Learning using Tensorflow** Organized by IIT Guwahati from 30 Sep- 7 Oct 2018.
- Worked as a key member of the organizing committee of **the International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2016)**.

HOBBIES/INTERESTS

- Learning new technologies
- Doing social activities
- Taking new responsibilities
- Writing Odia poems
- Playing badminton

PERSONAL DETAILS

Nationality: Indian
Date of Birth: 28th April, 1988
Gender: Male
Fathers Name: Mr. Laxmidhar Sahoo
Occupation: Retired Govt. Employee
Mothers Name: Mrs. Manjulata Sahoo
Occupation: Home Maker
Address: C216, Alpha1, Greater Noida, UP, India 201310

I hereby declare that all the information given is correct to the best of my knowledge.

Date: 05/06/2025
Place: *Greater Noida, India*   **(Swagat Ranjan Sahoo)**