# SOURAV MALAKAR

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**State Aided College Teacher (Category-I), Dept. of Computer Science, Maharani Kasiswari College**

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**Github**: https://github.com/rakhujoy
**Google Scholar:** https://scholar.google.com/citations?user=wk28Oa4AAAAJ&hl=en

## RESEARCH EXPERIENCE

**University of Calcutta, Kolkata** *Pursuing*
Ph.D (Technology) (Enrolled-2020)
A. K. Choudhury School of Information Technology

**A. K. Choudhury School of Information Technology, University of Calcutta** January, 2019-January, 2020
*Senior Project Associate*

Responsible for designing of different real time forecasting models to forecast renewable energy sources like solar irradiation and wind for different lengths of horizon.

## TEACHING EXPERIENCE

**Department of Computer Science, Maharani Kasiswari College** June,2019 - Present
*State Aided College Teacher, Full Time (Category-I)*

Part of B.Sc department.

**Department of Jute & Fibre Technology, University of Calcutta** August, 2017 - Present
*Guest Lecturer*

Part of both B.Tech and M.Tech departments.

**Department of Computer Application, Guru Nanak Institute of Technology** July, 2016 - December, 2018
*Assistant Professor (Part Time)*

Part of both BCA and MCA departments.

**Department of Computer Science, Asutosh College, Kolkata** August, 2013 - June, 2019
*Guest Lecturer*

Part of both B.Sc and M.Sc departments.

## EDUCATION

**University of Calcutta, Kolkata** *2013 - 2016*
Master of Technology, Computer Science and Application. Overall Percentage: 76.25
A. K. Choudhury School of Information Technology

**St. Xavier's College, University of Calcutta, Kolkata** *2011 - 2013*
Master of Science, Computer Science. Overall Percentage: 61.96

**Sammilani Mahavidyalaya, University of Calcutta, Kolkata**     *2008 - 2011*
Bachelor of Science (H), Computer Science.                        Overall Percentage: 61.25

**Boral High School, Kolkata**                                    *2007 - 2008*
Higher Secondary (Science).                                       Overall Percentage: 71

**Naktala High School, Kolkata**                                  *2005 - 2006*
Secondary.                                                        Overall Percentage: 75

## ACADEMIC ACHIEVEMENTS

**Detail of NET Exam:** UGC-NET Exam qualified for Assistant Professor in July, 2016 in Computer Science and Application.

## CARRIER OBJECTIVE

To work for an organization which provides me the opportunity to improve my skills and knowledge to grow along with the organization objective.

## PROJECTS

**LISA 2020**
Currently I am working as a Senior Project Associate in the Indo-USA collaborated project named LISA 2020 on Renewable Energy funded by USAID and joint collaboration with University of Colorado since January, 2019. In this project currently, I am trying to model time series data with different Deep Learning models to design real time robust forecasting models for solar and wind energy sources and also analyzing practical forecasting challenges.

**Trend detection in twitter business news in India** - A. K. Choudhury School of Information Technology-University of Calcutta.

**Sound Recognition**  St. Xaviers College (Autonomous), Kolkata, West Bengal.

## TECHNICAL STRENGTHS

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|---|---|
| **Skills & Expertise:** | Time Series Modeling, Machine Learning, Deep Learning |
| **Programming Languages:** | C, Java, R, Python |
| **Database:** | SQL, MySQL |
| **Software & Tools:** | RStudio, Jupytor Notebook, Oracle, Eclipse, MS Office, Latex |
| **R & Python Packages:** | Keras, caret, solaR, e1071, Numpy, Scipy, Scikit-learn, Pandas, Matplotlib |

## SUBJECTS TAUGHT

**Under-Graduate Level:** Digital Electronics, Computer Architecture, Data structure and algorithm, 8085, 8051.

**Post-Graduate Level:** Distributed Database Management system, Machine Learning, Deep Learning.

## SEMINAR, WORKSHOP, & CONFERENCES

- Presented on basics of python, and Dimensionality reduction techniques (Principal component analysis (PCA)) in a workshop for researchers from Social Sciences at Visva-Bharati University on 27$^{th}$ Februray 2020.

- A Two Days Workshop on Solar Power Forecasting jointly organised by NIWE & GIZ at The Turf, Hotel Renaissance, Bengaluru scheduled on 4th & 5th Nov. 2019.

- Workshop on LATEX: The Ultimate in Technical Report Writing held at University of Calcutta, Kolkata, 2016 with the technical collaboration of the ACM Professional Chapter, Kolkata.

- A Six Days Workshop on Machine Learning and Its Applications organized by: Centre of Excellence in Systems Biology and Bio-Medical Engineering, University of Calcutta.

- U.G.C Sponsored Seminar on I.C.T. In Higher Education Opportunities & Challenges in the 21st Century In Association With A K Choudhury School of Information Technology Organized by: Departments of Computer Science and Information Technology.

- One Day Workshop on Cloud Computing and the Aneka Platform Organized by: Department of Computer Science & Engineering & A.K. Choudhury School of Information Technology, University of Calcutta.

- A Two Days Workshop on Waging War against Cyber Crime Organized by: A.K. Choudhury School of Information Technology, University of Calcutta, IIIM Kolkata & West Bengal National University of Juridical Sciences Supported By TEQIP-II Project, and University of Calcutta.

- Certificate of Participation in TEQIP Sponsored International Conference on Industry Interactive Innovation in Science, Engineering & Technology I3SET 25th-26th, October 2016.

## INTERNATIONAL JOURNAL

- **Malakar, S.**, Goswami, S., Ganguli, B., Chakrabarti, A., Roy, S.S., Boopathi, K. and Rangaraj, A.G., 2021. Designing a long short-term network for short-term forecasting of global horizontal irradiance. SN Applied Sciences, 3(4), pp.1-15.

- **Malakar, Sourav**, Saptarsi Goswami, Bhaswati Ganguli, Amlan Chakrabarti, Sugata S. Roy, K. Boopathi, and A. G. Rangaraj 2021. "A Novel Feature Representation for Prediction of Global Horizontal Irradiance Using a Bidirectional Model" Machine Learning and Knowledge Extraction 3, no. 4: 946-965. https://doi.org/10.3390/make3040047

## INTERNATIONAL CONFERENCE

- **Malakar, S.**, Goswami, S. and Chakrabarti, A., 2018. An Online Trend Detection Strategy for Twitter Using MannKendall Non-parametric Test. In Industry Interactive Innovations in Science, Engineering and Technology (pp. 185-193). Springer, Singapore.

- **Malakar, S.**, Goswami, S., Chakrabarti, A. and Chakraborty, B., 2020. A Hybrid and Adaptive Approach for Classification of Indian Stock Market-Related Tweets. In Data Management, Analytics and Innovation (pp. 325-342). Springer, Singapore.

- Parsuramka, R., Goswami, S., **Malakar, S.** and Chakraborty, S., 2020. An Empirical Analysis of Classifiers Using Ensemble Techniques. In Data Management, Analytics and Innovation (pp. 283-298). Springer, Singapore.

- Barik, A.K., **Malakar, S.**, Goswami, S., Ganguli, B., Roy, S.S. and Chakrabarti, A., 2020. Analysis of GHI Forecasting Using Seasonal ARIMA. In Data Management, Analytics and Innovation (pp. 55-69). Springer, Singapore.

- Chowdhury, A.H., **Malakar, S.**, Seal, D.B. and Goswami, S., 2022. Understanding Employee Attrition Using Machine Learning Techniques. In Data Management, Analytics and Innovation (pp. 101-109). Springer, Singapore.

## PERSONAL TRAITS

- Highly motivated and eager to learn new things.

- Strong motivational and leadership skills.

- Ability to work as an individual as well as in group.

## REFERENCES

**Prof. Amlan Chakrabarty**, Professor, Director of the A.K. Choudhury School of Information Technology, University of Calcutta.

Email: acakcs@caluniv.ac.in

**Prof. Bhaswati Ganguli**, Professor, Department of Statistics, University of Calcutta.

Email: bgstat@gmail.com