

# Prasanjit Dey

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## PROFILE

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- » Active programmer in Computational Intelligence, Machine Learning & Deep Learning

## EDUCATION

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| 📅 2022/09–Present | PhD in School of Computer science<br><b>Technological University Dublin</b> | 📍 Dublin, Ireland |
| 📅 2014/06–2016/09 | M.Tech in Information Technology<br><b>MAKAUT, WB</b>                       | 📍 Kolkata, India  |
|                   | » CGPA: 8.27/10   |                   |
| 📅 2009/04–2013/05 | B.Tech in Computer Science and Engineering<br><b>WBUT</b>                   | 📍 Durgapur, India |
|                   | » CGPA: 7.27/10   |                   |

## EXAM QUALIFY

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- » UGC NET for Assistant Professor in computer Science and Application in July, 2019

## SCHOLARSHIP

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- » 4 year PhD position full funding from SFI Centre for Research Training in Digitally-Enhanced Reality (CRT-DReal)

## WORK

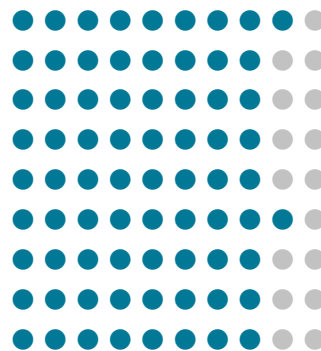
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| 📅 2020/12–2022/08 | Junior Research Fellow<br><b>National Institute of Technology Jamshedpur</b>                       | 📍 Jamshedpur, India |
|                   | » Time-series data monitoring & prediction using Deep Learning model                               |                     |
|                   | » Air Quality pollutants prediction using Deep Learning model                                      |                     |
|                   | » Time series prediction using satellite data  |                     |
| 📅 2018/12–2020/10 | Project Assistant-III<br><b>Central institute of Mining &amp; Fuel Research</b>                    | 📍 Dhanbad, India    |
|                   | » Digital Mine software development using Django, Python & Internet of Things (IoT)                |                     |
|                   | » Mine hazards prediction using Deep Learning model  |                     |
|                   | » Vision enhancement for foggy weather software development using Deep Learning framework & OpenCv |                     |
|                   | » Voice Communication System development using RaspberryPi, MATLAB & Simulink                      |                     |
| 📅 2017/02–2018/07 | Assistant Professor<br><b>Ramgovind Institute of Technology</b>                                    | 📍 Koderma, India    |
|                   | » Teaching Computer Network, Operating System, & Database Management                               |                     |
|                   | » Teaching Algorithms & Data structure   |                     |

## SKILLS

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C  
 Python  
 MATLAB & Simulink  
 Deep Learning Framework  
 AI/ML Libraries  
 Latex  
 Image Processing & OpenCV  
 IoT  
 RaspberryPi & Arduino



## PUBLICATIONS IN JOURNAL

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- » **Prasanjit Dey**, et al. "Deep convolutional neural network based secure wireless voice communication for underground mines." Journal of Ambient Intelligence and Humanized Computing (2021): 1-20. (I.F. 7.1). (SCIE).
- » **Prasanjit Dey**, S. K. Chaulya, and Sanjay Kumar. "Hybrid CNN-LSTM and IoT-based coal mine hazards monitoring and prediction system." Process Safety and Environmental Protection (2021). (I.F. 6.1). (SCIE).
- » **Prasanjit Dey**, Swades Kumar Chaulya, and Sanjay Kumar. "Secure decision tree twin support vector machine training and classification process for encrypted IoT data via blockchain platform." Concurrency and Computation: Practice and Experience (2021): e6264. (I.F. 1.5). (SCIE).
- » K Kumari, **Prasanjit Dey** et al. "UMAP and LSTM based fire status and explosibility prediction for sealed-off area in underground coal mine." Process Safety and Environmental Protection 146 (2021): 837-852. (I.F. 6.1) (SCIE).
- » Sourav Hati, **Prasanjit Dey**, and Debashis De. "WLAN based energy efficient smart city design." Microsystem Technologies 25.5 (2019): 1599-1612. (I.F. 2.2). (SCI).
- » **Prasanjit Dey**, et al. "t-SNE and Variational Auto-Encoder with a bi-LSTM Neural Network-Based Model for Prediction of Gas Concentration in a Sealed-Off Area of Underground Coal Mines." Soft Computing. (I.F. 3.6). (SCIE).

## PUBLICATIONS IN CONFERENCE

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- » Agarwal, Aditya, **Prasanjit Dey**, and Sanjay Kumar. "Sentiment Analysis using Modified GRU." Proceedings of the 2022 Fourteenth International Conference on Contemporary Computing. 2022.

## PUBLICATIONS IN PATENT

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- » Patent No: 201831030620, Journal No: 36/2018, "Location Tracking System for Indoor Environment", Dated: 16-08-2018
- » Patent No: 0002NF2020, "Digital mine using Internet of Things", Dated: 07-01-2020

## COPYRIGHT SOFTWARE

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- » Application No: 007CR2020, DM-Digital Mine Software
- » Application No: 008CR2020, MEMP - Mine Environment Monitoring and Prediction Software
- » Application No: 015CR2020, Real time image processing method and software
- » Application No: 008CR2020, Method and software for real time image stitching and object detection

## AWARDS

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- » CSIR-Central Institute of Mining and Fuel Research, Dhanbad, India, Dr. Adinath Lahiri awards for 2nd prize for the highest Impact Factor (IF) of papers published in SCI journal.

## PROJECT

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📅 2018–2016

### Digital Mine Using Internet of Things

**CSIR-CIMFR**

📍 Dhanbad, India

- » This project includes Miners Module
- » Mine Gas Monitoring
- » Miners Tracking
- » Strata Module
- » Machine Health Monitoring

📅 2018–2016

### Vision Enhancement for Foggy Weather

**CSIR-CIMFR**

📍 Dhanbad, India

- » This project includes different module
- » Real-Time Image stitching
- » Real-Time Vision Enhancement
- » Real-Time Object Detection

## CONFERENCE/SEMINAR

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- » 3rd International Conference on Microelectronics, Circuits and Systems on 9-10th July, 2016
- » New Innovation in Cloud Computing for Big Data and Internet of Things Application on 29th July, 2016
- » International colloquium on cyber governance, Threats and Security on 16th August, 2016
- » Network Security on 29th February, 2016
- » Ethics in Academic Governance on 26-27th August, 2016
- » Advance Wireless Network: Challenges in Technology and Security on 9th May, 2016

## CERTIFICATION

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- » NPTEL online certificate of Deep Learning on Jan-April (12 Week), 2020
- » Research Methodology on 21th July, 2018
- » Nature Inspired Algorithms and its Application on 08-12th February, 2016
- » Logic Design of Quantum Circuit and Memristor – Based Systems on 08-12th August, 2016
- » Android Workshop on 20-24th May, 2016
- » Corporate Commutation: Beyond the Syllabi on 26-27th May, 2016

## ACTIVITY ORGANIZED

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- » Member of the Organizing committee of a "2-days Workshop on Corporate Communication: Beyond the Syllabi"
- » Member of the Organizing committee of "3rd. International Conference on Microelectronics, Circuits and Systems, Micro2016"
- » Member of the Organizing committee of "1st International Conference on Advanced Computing"

## LANGUAGES

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Bengali (native)


English (fluent)


## REFERRER

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