

RESUME

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CAREER OBJECTIVE

To employ my hard work and dedications with a professional organization to achieve greater heights in life.

EDUCATIONAL QUALIFICATIONS

Name of Examination	Year of passing	Name of Institution / School	Board / University	Aggregate %/ DGPA of Marks
Secondary Examination	2007	Nabapally Boys High School(H.S.)	W.B.B.S.E	72.12%
Higher Secondary Examination	2009	Nabapally Boys High School(H.S.)	W.B.C.H.S.E	67.4%
B.TECH	2013	TECHNO ENGINEERING COLLEGE BANIPUR	W.B.U.T	7.84 (DGPA)
M.TECH	2016	NARULA INSTITUTE OF TECHNOLOGY	M.A.K.A.U.T	8.16(DGPA)
PhD			M.A.K.A.U.T	Pursuing

WORK EXPERIENCE

Company Name	Period	Jobs & Responsibilities
BAID POWER SERVICES Pvt. Ltd.	20th NOV 2013 to 6th FEB 2014	Worked as an On Job Trainee(OJT) on the Project of wireless transmission using MSP430G2553 kit of TEXAS Instrument .
Narula Institute of Technology	2014 to 2016	Has taken theory and practical classes as a teaching assistant.
ASPIRE DISRUPTIVE SKILL FOUNDATION	20 th Dec 2016 to April 2017	Solar faculty of “SURYAMITRA” solar skill development program at Jyotirmoy School of Business, Sonarpur.
Narula Insitute of Technology	12 th july 2017 to 21 th Dec 2017	Taking theory and practical classes as a guest faculty .
SEACOM ENGINEERING COLLEGE	15 TH JAN 2018 to 23 rd Aug 2022	Assistant Professor of Electrical Engineering Department
SWAMI VIVEKANANDA UNIVERSITY	24 th AUG 2022 to present	Assistant Professor of Electrical Engineering Department

TRAININGS & PROJECTS

Vocational Training	1) 2 weeks training at Writers' Building Electrical Sub Division in Kolkata in the year 2012. 2) 10 days training & plant familiarization program at Durgapur Steel Plant (DSP) .
Industrial Training	Undergone 3 months training on 8051 based Embedded System & PIC microcontroller at XESP , Kolkata in the year 2013.
Training	Theory & hands on training on Programmable Logic Controllers (PLCs) in Industrial Application at ORIENS INFOTECH PVT. LTD. , Kolkata in 2012.
Final year project (B.TECH)	Thermal Analysis Of 3 Phase Induction Motor Under Plugging Condition To Determine The Hot Spot.
Final year project (M.TECH)	Modeling and simulation of three zone distance protection scheme during transmission line contingency.
Workshop	1) National level workshop on “ Application of MATLAB in Electrical Engineering ” at NIT Nagaland . 2) National Level Workshop entitled “ MODERN POWER SYSTEM ” organized by the Department of Electrical and Electronics Engineering, NIT Nagaland during February 10-14, 2023 3) One week Online Technical Workshop on “Recent Trends and Breakthroughs in Power Industry for 21 st Century Electrical Engineering Education”, October 3 to October 7, 2025.
Solar training	1) Training of trainers program on a) Solar PV installer suryamitra b) Solar PV installer Electrical c) Solar PV installer Civil d) For Domain skills and platform skills. 2) Master trainer class by “renac(renewables academy)” on Didactics and Enhanced Teaching methods. 3) iRISE “UPSKILLING SURYAMITRA ON PV TECHNOLOGY AND ENTREPRENEURSHIP” by renac .

Faculty Development Programme	1) Short Term Training Programme through ICT Mode on Introduction to Network Security organized by NITTTR,Kolkata. 2) Short Term Training Programme through ICT Mode on Advanced Process Control and Instrumentation System organized by NITTTR,Kolkata. 3) Short Term Training Programme through ICT Mode on Development of Laboratory Instruction Manual organized by NITTTR,Kolkata. 4) Faculty Development Program on Effectiveness, Methodology & Assessment of Digital Education System Organized by Modern Institute of Engineering & Technology, Bandel , Hooghly . 5) Research Methodology and document preparation in LATEX organized by St. Thomas' College of Engineering & Technology. 6) AICTE Training And Learning Academy Online FDP on Sensors Technology , The University of Burdwan. 7) AICTE Training And Learning Academy Online FDP on Smart cities , National power training institute. 8) AICTE Training And Learning Academy Online FDP on Power Electronics application in Machine Drives and Power system , NIT Mizoram.

	9) One week online faculty development program on Research Opportunities in AI,ML and IOT in the field of Electrical Engineering , Gargi Memorial Institute of Technology,Kolkata 10) FDP on "Smart Practices towards Tomorrow's Electric Power Paradigm" , Gargi Memorial Institute of Technology,Kolkata 11) FDP on “ Digital Protection of Power System “ , NPTEL , IIT,Madras. 12) FDP on “ Research Methodology” , NPTEL , IIT,Madras. 13) FDP on " Industry 4.0: Readiness, Skills and Future Directions ", MCKV INSTITUTE OF TECHNOLOGY 14) Faculty Development Program on “SMART AND SUSTAINABLE SYSTEMS WITH FUTURISTIC APPROACHES” , SANAKA EDUCATIONAL TRUST'S GROUP OF INSTITUTIONS 15) Faculty Development Program on “Emerging Technologies (IoT, Cloud Computing, Generative AI) and their roles in Outcome Based Education (OBE) under NEP 2020" , HALDIA INSTITUTE OF TECHNOLOGY 16) Faculty Development Program on “Cutting-Edge Technologies in Engineering for Sustainable Development” , SEEMANTA ENGINEERING COLLEGE 17) Faculty Development Program on “Emerging Trends in Engineering” , GEMS POLYTECHNIC COLLEGE

	18) “Power System Protection and Switchgear”, NPTEL, IIT ROORKEE 19) 5-Day Faculty Development Program (Hybrid mode) on FUTURE INNOVATIONS IN QUANTUM VLSI: AI-Driven Approaches in Quantum Computing, and VLSI Organized by Department of Electrical and Electronics Engineering, IEM, Saltlake, 27-10-2025 to 31-10-2025 20) FDP on “Challenges and Solutions for Power Quality in Modern Power Electronics Driven Power System “organised by Department of Electrical Engineering, Dream Institute of Technology, Kolkata ,from 25.11.2025 to 29.11.2025. 21) FDP on “Application of Electrical Engineering for Sustainable Product Development” , RCC Institute of Information Technology, Kolkata, 15-12-2025 to 19-12-2025. 22) Faculty Development Programme (FDP) titled "Smart Control Techniques for Solar and Renewable" organized by SELECT from 04/05/2026 to 08/05/2026 at Vellore Institute of Technology, Chennai. 23) 5-Day Faculty Development Program On Preparation and Prioritization for Secure and Sustainable EV Mobility (4.0) Organized by Department of Electrical Engineering, IEM , Saltlake, technically co-sponsored by , IEEE IAS/IES SBC OF IEM KOLKATA 24) FDP on “Renewable Energy Engineering: Solar, Wind and Biomass Energy System”, NPTEL , IIT,Madras 25) FDP on "Data to imagination: Deploying Generative AI across Disciplines"- 15 June to 20 June at St.Thomas College of Engineering and Technology , Kolkata.
Webinar	1)Security of Things and their Low Cost Authenticated Interaction In the world of IoT organized by MAKAUT,WB. 2) Faculty Development: Online Teaching organized by MAKAUT,WB. 3) Matlab for Engineering Practice, Science and Research organized by MAKAUT,WB. 4) Sensor & Advanced Data Acquisition System organized by MAKAUT,WB. 5) Application of Artificial Intelligence on Geo-Spatial Data organized by MAKAUT,WB. 5) Matlab and Simulink for IOT Application in Engineering organized by MAKAUT,WB. 6) Working Through The Lockdown organized by MAKAUT,WB. 7) BASIC CONCEPTS OF STEGANOGRAPHY : HIDING DATA WITHIN DATA organized by MAKAUT,WB . 8) Machine Learning using PYTHON organized by SEACOM ENGINEERING COLLEGE. 9) Electric Power Grid's Response To COVID-19 Pandemic: Possible Recovery Measures organized by GARGI MEMORIAL INSTITUTE OF TECHNOLOGY. 10) International SAGE TALK on Research Papers and Proposal Writings for Academic Career organized by Department of Computer Science and Engineering, Sagar Institute of Research & Technology, Bhopal.
Professional Memberships	Member, <i>International Association of Engineers (IAENG)</i> <i>Membership ID: 536313, Since: 2025</i>

CONFERENCE AND JOURNAL

Conference	➤ “Three zone distance protection of modern power system with transmission line contingency”, International Conference on Computational Advancement in Applied Science and Engineering (IC2A2SE - 2016). ➤ Suvraujjal Dutta, Dr. Sandip Chanda , Dr.Papun Biswas, Dr. Abhinandan De, “Development of PMU data-based fault classification in smart electrical power networks”, ICTCS 2022, Chandigarh,India. ➤ Suvraujjal Dutta, Dr. Sandip Chanda , Dr.Papun Biswas, Dr. Abhinandan De, "State Estimation of Smart Power System Networks with PMU Data and Machine Learning Algorithms" , ESDA 2022,Kolkata,India. ➤ Suvraujjal Dutta, Dr. Sandip Chanda, Dr.Papun Biswas, Dr. Abhinandan De, A Survey on Dynamic state estimation strategies of power system networks , ICICASEE 2023,Malda,India. ➤ Suvraujjal Dutta, Dr. Sandip Chanda , Dr.Papun Biswas, Dr. Abhinandan De, A Survey on Dynamic State Estimation strategies deployed for protection and control of modern Power Grid, CCSN 2023, Mumbai,India. ➤ Suvraujjal Dutta, Dr. Sandip Chanda, Dr. Alok Kumar Shrivastav and Dr. Abhinandan De,“Kalman Filter and Machine Learning-Based Dynamic State Estimation for Modern Power Networks Using PMU Data”, 2nd International Conference on Sustainable Power and Energy Research (ICSPER 2025) held at National Institute of Technology Srinagar, J&K, India from July 11-12, 2025 ➤ Suvraujjal Dutta, Dr. Sandip Chanda, Dr. Alok Kumar Shrivastav and Dr. Abhinandan De ,“A Reduced-Complexity Machine-Learning-Aided Kalman Filtering Framework for Dynamic State Estimation and Adaptive Protection in Modern Power Systems”, International Conference on Advances in Communication, Medical Electronics and Smart Grid Automation at JIS College of Engineering, Kalyani, 22nd - 23rd April, 2026 ➤ Suvraujjal Dutta, Sandip Chanda, Alok Kumar Shrivastav, Abhinandan De (2026), “A Kalman Filter Framework Enhanced with Machine Learning for Dynamic State Estimation–Based Protection in Modern Power Systems” ,Proceedings of the International Conference on Power, Environment and Intelligent Systems (PEIS 2026) ➤ Suvraujjal Dutta, Alok Kumar Shrivastav, Sandip Chanda, Abhinandan De, 2026 4th Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology (ODICON), “An AI-Integrated Kalman Filter Approach for Realtime Dynamic State Estimation Utilizing PMU Measurements “ ,Bhubaneswar, India, 2026
Journal	➤ Suvraujjal Dutta, Sandip Chanda ,Abhinandan De , A. Design and Development of Three-Zone Distance Relay Protection Scheme at MATLAB Platform. J. Inst. Eng. India Ser. B 102, 31–40 (2021). https://doi.org/10.1007/s40031-020-00505-1 ➤ Suvraujjal Dutta,Sujoy Bhowmik,Rituparna Mitra,Suryendu Dasgupta,A Review of Fault Detection and Diagnosis in Power Systems Using Artificial Intelligence,Journal of Systems Engineering and Electronics (ISSN NO: 1671-1793) Volume 34 ISSUE 12, 2024,DOI:20.14118.jsee.2024.V34I12.2059,Pages 487-496 ➤ Suvraujjal Dutta,Integration of AI in Modern Protection Schemes: Challenges, Limitations, and Prospects,Volume 1 (Issue 3: July- October, 2025): Pages 14-25 https://www.swamivivekanandauniversity.ac.in/jrtee/ Published on November 16, 2025" ➤ Suvraujjal Dutta,Sandip Chanda,Alok Kumar Shrivastav,Abhinandan De,Dynamic State Estimation for Power System Protection: Methods, Challenges, and Emerging Directions ,Journal of Recent Trends of Electrical Engineering ,Volume 1 (Issue 3: July- October, 2025): Pages 30-42 https://www.swamivivekanandauniversity.ac.in/jrtee/ Published on November 16, 2025 " ➤ Suvraujjal Dutta ,“Dynamic State Estimation for AC, DC, and Hybrid Microgrids: Models, Estimation Methods, Cyber Resilience, Challenges, and Future Research Directions”, Journal of Recent Trends of Electrical Engineering ,Volume 2 (Issue 2: July 2026): Pages 1-25 https://www.swamivivekanandauniversity.ac.in/jrtee/ Published on July 21, 2026 " ➤ Suvraujjal Dutta ,“ A Comprehensive Review of IEEE 30-Bus System Challenges Under Fault Conditions, CT Saturation, Distributed Generation Back-Feed, and Cyber-Security Threats”, Journal of Recent Trends of Electrical Engineering ,Volume 2 (Issue 1: March 2026): Pages 1-9 https://www.swamivivekanandauniversity.ac.in/jrtee/ Published on Mar 26, 2026 " ➤ Suvraujjal Dutta, Alok Kumar Shrivastav, Sandip Chanda, Pankaj Kumar, Soham Dutta &

	Abhinandan De , “Reducing computational complexity in nonlinear power system state estimation via ANN-assisted linear Kalman filtering”. Scientific Reports (2026). https://doi.org/10.1038/s41598-026-64653-y
Patents	➤ IoT Based Digital DC Power Supply Device <i>Inventor(s): 1. Dr. Sandip Chanda2. Kumkum Chanda3. Mrs. Suparna Maity4. Mr. Suvraujjal Dutta5. Mr. Arindam Pal</i> Assignee: Published: 2024-12-09 ➤ Double Head LASER Cutting Machine <i>Inventor(s): 1. Dr. Sandip Chanda2. Mrs. Suparna Maity3. Mr. Suvraujjal Dutta 4. Mr. Arindam Pal5. Mr.Soumyadip Roy6. Mr. Deepjyoti Santra</i> Assignee: Published: 2024-09-15
Book chapter	
➤ "Suvraujjal Dutta, Avik Datta, Titas Kumar Nag, and Rituparna Mukharjee, Shipboard power system intelligent protection system design,CRC Press, Taylor & Francis,https://doi.org/10.1201/9781003596745,2025" ➤ "Suvraujjal Dutta, Titas Kumar Nag, Promit Kumar Saha, and Susmita Dhar Mukharjee, Diagnosis of power system protection issues A few factors of power system transformation, CRC Press,Taylor & Francis,https://doi.org/10.1201/9781003596745,2025" ➤ Suvraujjal Dutta, AI in Power System Fault Detection and Diagnosis: A Review, Reyansh global research foundation, https://doi.org/10.62823/RGRF/9788197496295 ,March 2025 ➤ Suvraujjal Dutta, AI in Power System Fault Detection and Diagnosis: A Review, Reyansh global research foundation, https://doi.org/10.62823/RGRF/9788197496295 ,March 2025 ➤ Suvraujjal Dutta, Rituparna Mukharjee, Avik Datta and Rituparna Mitra,A Survey on Strategies for Assessing the Dynamic State of Power Systems, AkiNik Publications, https://doi.org/10.22271/ed.book.2863 ,2024 ➤ Suvraujjal Dutta, Rituparna Mukharjee, Avik Datta and Titas Kumar Nag,Review on Applications of Artificial Neural Networks for the Protection of Power Systems,AkiNik Publications ,https://doi.org/10.22271/ed.book.2863 ,2024 ➤ Suvraujjal Dutta, Avik Datta, Rituparna Mitra and Rituparna Mukharjee, An Investigation on How Variations in PV Power Generation Model Parameters affect Power Systems, AkiNik Publications ,https://doi.org/10.22271/ed.book.2863 ,2024 ➤ Suvraujjal Dutta, Avik Datta, Rituparna Mitra and Rituparna Mukharjee, The Method of Operation Condition Assessment and How it Can be Usefully for Protection Systems,AkiNik Publications ,https://doi.org/10.22271/ed.book.2863 ,2024 ➤ Suvraujjal Dutta, Avik Datta, Rituparna Mitra and Rituparna Mukharjee, Indian Power System Frequency Analyses , AkiNik Publications ,https://doi.org/10.22271/ed.book.2863,2024 ➤ Suvraujjal Dutta, Sandip Chanda, Papun Biswas, Sandip Chanda, Abhinandan De, Enhancing Power System Reliability: Three-Zone Distance Protection for Transmission Line Contingencies,Bluerose Publication ,https://blueroseone.com/store/product/frontiers-of-engineering-innovation-interdisciplinary-approaches-and-applications ➤ Suvraujjal Dutta, Titas Kumar Nag, Promit Kumar Saaha, Susmita Dhar Mukherjee,Optimal PMU Placement Methods in Power Systems: A Review of Phasor Measurement Unit Integration,Bluerose Publication,https://blueroseone.com/store/product/frontiers-of-engineering-innovation-interdisciplinary-approaches-and-applications ,Aug-2024 ➤ Suvraujjal Dutta, Avik Datta, Rituparna Mitra, Rituparna Mukharjee,HVDC Protection Strategies: An In-Depth Survey and Analysis,Bluerose Publication ,https://blueroseone.com/store/product/frontiers-of-engineering-innovation-interdisciplinary-approaches-and-applications ,Aug-2024 ➤ Suvraujjal Dutta,An Analysis of Smart Grid Technologies:Advantages, Challenges, and Pathways to a Sustainable Future,Ideal Publication, https://doi.org/10.71431/978-81-989217-3-4 ,ISBN: 978-81-991305-1-7, August 2025 ➤ Suvraujjal Dutta,An In-Depth Review of Non-Renewable Energy Sources: Types, Impacts, and Future Outlook,Ideal Publication, DOI: https://doi.org/10.71431/978-81-989217-3-4,ISBN: 978-81-991305-1-7, August 2025 ➤ Suvraujjal Dutta,A Review of Battery Management Systems: Technologies, Challenges, and Future Trends,Ideal Publication, DOI: https://doi.org/10.71431/978-81-989217-3-4,ISBN: 978-81-991305-1-	

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- Suvraujjal Dutta, A Comprehensive Review of Kalman Filter Techniques and Applications, Ideal Publication, DOI: <https://doi.org/10.71431/978-81-989217-3-4>, ISBN: 978-81-991305-1-7, August 2025
- Suvraujjal Dutta, Increased Adoption of Renewable Energy: Trends, Challenges, and Opportunities, Ideal Publication, DOI: <https://doi.org/10.71431/978-81-989217-3-4>, ISBN: 978-81-991305-1-7, August 2025
- Suvraujjal Dutta, A Comparative Review of Kalman Filter, Extended Kalman Filter (EKF) and Unscented Kalman Filter (UKF), Integrated Publications, <https://doi.org/10.62778/int.book.620>, 2025
- Suvraujjal Dutta, A Comprehensive Review of Convolutional Neural Networks (CNNs) and Their Applications, Integrated Publications, <https://doi.org/10.62778/int.book.620>, 2025
- Suvraujjal Dutta, An Overview of Smart Building Technologies and Their Integration for Improved Efficiency and Sustainability, Integrated Publications, <https://doi.org/10.62778/int.book.620>, 2025
- Suvraujjal Dutta, An Overview of Fault Classification in Power Systems: Methods, Issues and Prospects, Integrated Publications, <https://doi.org/10.62778/int.book.620>, 2025
- Suvraujjal Dutta, Papun Biswas, Sandip Chanda, Abhinandan De, (2023). Development of PMU Data-Based Fault Classification in Smart Electrical Power Networks. In: Joshi, A., Mahmud, M., Ragel, R.G. (eds) Information and Communication Technology for Competitive Strategies (ICTCS 2022). ICTCS 2022. Lecture Notes in Networks and Systems, vol 623. Springer, Singapore. https://doi.org/10.1007/978-981-19-9638-2_40
- Suvraujjal Dutta, Papun Biswas, Sandip Chanda, Abhinandan De, (2024), A survey on dynamic state estimation strategies of power system networks, Intelligent Computation and Analytics on Sustainable Energy and Environment, doi: 10.1201/9781003540199-17
- Suvraujjal Dutta (2024), Phasor Measurement Units: Enhancing Power System Monitoring and Control, Electrical Engineering Developments in Recent Years, ISBN: 978-93-340-1849-3, Swami Vivekananda University (Institutional Publisher)
- Suvraujjal Dutta (2024), Future Energy Resources, Swami Vivekananda University (Institutional Publisher), "Harnessing the Wind - The Power of Wind Energy", ISBN: 978-93-340-6874-0
- Suvraujjal Dutta (2026), Electrical Machines, Power Electronics, and Sustainable Energy Systems, "Energy Storage Systems", Swami Vivekananda University (Institutional Publisher), ISBN: 978-93-5635-586-6
- Suvraujjal Dutta, Alok Kumar Shrivastav, Sandip Chanda, Abhinandan De, 2026 4th Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology (ODICON), "An AI-Integrated Kalman Filter Approach for Realtime Dynamic State Estimation Utilizing PMU Measurements", Bhubaneswar, India, 2026, pp. 1-8, doi: 10.1109/ODICON66687.2026.11470636
- Suvraujjal Dutta (2026), "Dynamic State Estimation for AC, DC, and Hybrid Microgrids: Models, Estimation Methods, Cyber Resilience, Challenges, and Future Research Directions", Journal of Recent Trends of Electrical Engineering, vol :2, issue:2
- Suvraujjal Dutta (2026), "Electric Vehicles and Smart Charging Infrastructure", Essential concepts in Smart Grid- Design and System Analysis (ISBN: 978-93-6038-227-8), Vol:6, Pages 158-192
- Suvraujjal Dutta, Sandip Chanda, Alok Kumar Shrivastav, Abhinandan De (2026), "A Kalman Filter Framework Enhanced with Machine Learning for Dynamic State Estimation-Based Protection in Modern Power Systems", Proceedings of the International Conference on Power, Environment and Intelligent Systems (PEIS 2026), Vol:1, Pages :200-207

COMPUTER SKILLS

Programming Languages	C,HTML,MATLAB,MI POWER
Operating Systems	MS DOS, Windows98,2000,XP, Win 7,Win 8,Win 10,Win 11
Subject of Interest	Power system ,Power electronics, Basic electrical, Digital electronics
Software	Microsoft Word , Microsoft Excel & Microsoft PowerPoint, Adobe Photoshop

Personal Details

Date of Birth : 4th jan1991
Father's name : Saroj Kumar Dutta
Gender : Male
Languages Known : Bengali, Hindi, English
Nationality : Indian

I hereby declare that the information furnished above is true to the best of my knowledge

Signature of the Candidate:

Date

