

ASHRAF ULLAH



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EDUCATIONAL QUALIFICATION:

- **PhD**
(Data Science)
COMSATS University Islamabad Session: Fall 2024
<https://www.comsats.edu.pk>

PhD Thesis Title:
(Efficient Electricity Theft Detection in Smart Grids using Data Driven Models)
- **MS (IT)**
(Computer science)
Imsciences Peshawar Session: Fall 2013
imsciences.edu.pk

CURRENTLY WORKING AS A ASSISTANT PROFESSOR:

- Sarhad University Islamabad
(Bs Artificial Intelligence)

EXPERIENCE AS A LECTURER:

- Federal Urdu University Islamabad
(Bs Software Engineering)
- Hamdard University
(Visiting Lecturer)
(15 January 2023 – 25 May 2023
Bs Computer Science)
- Alhamad University
(6 October 2022 – 31 January 2023
Bs Computer Science)

- **Punjab College of Commerce/UCP Campus**
(15 August 2014 – 24 Sep 2017)
B.com-ADP-BCS
- **IBMS (Agriculture University Peshawar)**
(1st September 2009 to 30th May 2012)
Bs Computer Science
- **U.E.T (University of Engineering and Technology Bannu)**
(Visting Lecturer)
(March 2004 to June 2006)
Bs-Electrical Engineering

PAPER PUBLICATIONS: (CONFERENCE)

i. CNN and GRU-based Deep Neural Network for Electricity Theft Detection to Secure Smart Grid

Publisher: <https://ieeexplore.ieee.org/document/9148314>

Authors and Conference Preceding: **Ashraf Ullah**, Nadeem Javaid, Omaji Samuel., Muhammad Imran, Muhammad Shoaib.: 2020 International Wireless Communications and Mobile Computing (IWCMC) (pp. 1598-1602). IEEE.

ii. Alexnet-Adaboost-ABC based Hybrid Neural Network for Electricity Theft Detection in Smart Grids

Publisher: https://link.springer.com/chapter/10.1007/978-3-030-79725-6_24

Authors and conference preceding: Muhammad Asif, **Ashraf Ullah**, Shoaib Munawar, Benish Kabir, Pamir, Adil Khan, and Nadeem Javaid: 15th International Conference on Complex, Intelligent and Software Intensive System (CISIS), 2021, ISBN: 978-3-030-50

iii. Synthetic theft attacks implementation for data balancing and a gated recurrent unit-based electricity theft detection in smart grids.

Publisher: https://link.springer.com/chapter/10.1007/978-3-030-79725-6_39

Authors and conference preceding: Pamir, **Ashraf Ullah**, Shoaib Munawar, Benish Kabir, and Nadeem Javaid: 15th International Conference on Complex, Intelligent and Software Intensive System (CISIS), 2021, ISBN: 978-3-030-50

iv. Electricity Price Forecasting based on Enhanced Convolutional Neural Network in Smart Grid.

Publisher: https://link.springer.com/chapter/10.1007/978-3-030-44038-1_111

Authors and conference preceding: Nazia Daood, Zahoor Ali khan, **Ashraf Ullah**, and Nadeem Javaid: 34th International Conference on Advanced Information Networking and Applications (WAINA-2020).

v. Fast and Accurate Hybrid Electric Load Forecasting with Novel Feature Engineering and Optimization Framework in Smart Grid.

Publisher: <https://ieeexplore.ieee.org/document/9044215>

Authors and conference preceding: Ghulam Hafeez, Muhamad Imran, **Ashraf Ullah**: 2020 6th Conference on Data Science and Machine Learning Applications (CDMA) Riyadh.

PAPER PUBLICATION: (JOURNAL)

i. Robust Resampling and Stacked Learning Models for Electricity Theft Detection in Smart Grid (Published).

URL: <https://doi.org/10.1016/j.egy.2024.12.041>: Publisher: Elsevier: Authors: **Ashraf Ullah**, Inam Ullah Khan, Muhammad Zeeshan Younas, Maqbool Ahmed, Natalia Kryvinska (IF= 4.8)

ii. Adaptive data balancing method using stacking ensemble model and its application to non-technical loss detection in smart grids (Published)

URL: <https://ieeexplore.ieee.org/document/9994696>: Publisher: IEEE: Authors: **Ashraf Ullah**, Nadeem Javaid, Muhammad Umar Javed, Pamir, Byung-Seo Kim, Saeed Ali Bahaj (IF= 3.336)

iii. AlexNet and Ada-Boost-based Hybrid Model for Electricity Theft Detection to Secure Smart Grids (Published)

URL: <https://ieeexplore.ieee.org/document/9707814>: Publisher: IEEE: Authors: **Ashraf Ullah**, Nadeem Javaid, Asif, Umar, Adamu Sani Yahaya. (IF=3.336)

iv. A Hybrid Deep Neural Network for Electricity Theft Detection using Intelligent Antennas-based Smart Meters (Published)

URL: <https://www.hindawi.com/journals/wcmc/2021/9933111> Publisher: Willey and Hindawi: Authors: **Ashraf Ullah**, Nadeem Javaid, Adamu Sani Yahaya, Tanzeela Sultana, Fahad Ahmad Al-Zahrani, Fawad Zaman (IF= 2.336)

PAPER PUBLICATION: (UNDER REVIEW/UNDER PROCESS)

- i. **Deep Ensemble Learning with Multi-Model Resampling Techniques for Energy Theft Detection in Industrial Environments (Under Review)** (IF=10.4)

Submitted To: Journal of Industrial Information Integration: Publisher: Elsevier: URL: www.sciencedirect.com/journal/journal-of-industrial-information-integration Authors: Abdul Jabbar, **Ashraf Ullah**, Adnan Akhunzada, Ahmad Sami Al-Shamayleh
- ii. **Fraud Identification in Electric Grids: Neural Architectures Meet Resampling Strategies (Under Process)**. Authors: Inam Ullah Khan, **Ashraf Ullah**, James Taylor, Xiand.Ma,
- iii. **Machine Learning in Cardiology: A Study of Heart Disease Prediction and Analysis (Under Process)**. Authors: Abdul Jabbar, **Ashraf Ullah**.

REVIEWER:

Working as a potential reviewer for the following journals

- Springer Nature
- Computers and Electrical Engineering

COMPUTER SKILLS:

- Networking
- Database
- Data Science
- Artificial Intelligence
- Machine Learning
- Deep Learning
- Data Structure
- Data Analytic Programming
- C/C++