



## ASSISTANT PROFESSOR

### KAZI AMRIN KABIR

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### RESEARCH INTERESTS:

MACHINE LEARNING, URBAN DEVELOPMENT

### EXPERIENCE:

**Academics:** 1 Year

**Industry:** -

### EDUCATION:

Pursuing PhD, NIT, DGP

M.Tech, University of Calcutta

M.Sc, University of Calcutta

### Courses Taught:

Pattern Recognition, Automata Theory

### Projects Handled:

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### Research Publications:

#### Journal Articles

1. Kabir, K. A., Guha Thakurta, P. K., & Kar, S. (2025). "An intelligent geographic information system-based framework for energy-efficient street lighting." *Signal, Image and Video Processing*, 19(4), 305. (SCIE) (Published).
2. Kabir, K. A., Choudhari, N., & Guha Thakurta, P. K. "Enhancing Land Use and Land Cover Change Prediction: An Efficient Hybrid Model." (Under Revision, ESCI).
3. Kabir, K. A., Mandal, S., & Guha Thakurta, P. K. "Energy Efficient Street Lighting for Urban Development: A Hybrid ANOVA–GA Framework." (Under Revision, SCOPUS).
4. Kabir, K. A., Guha Thakurta, P. K., & Kar, S. "An Efficient GIS-based Fuzzy MCDM Framework for Assessment of Land Suitability in Sustainable Development." (Under Revision, ESCI).
5. Kabir, K. A., Choudhari, N., & Guha Thakurta, P. K. "An Efficient PM10 Forecasting for Air Quality Monitoring in Urban Region: Intelligent SciML-based Hybrid Framework." (Communicated).

6. Kabir, K. A., V. H. Vardhan, S. V. V. S. S. Tejesh, S. Mandal, S. Kar, & P. K. Guha Thakurta. "GISIPDWTU: A GIS-based Image Processing Framework for Detection of Waterbody Transformation in Urban Region." (Communicated).

### **Conference Papers**

1. Kabir, K. A., Sikdar, P. L., & Guha Thakurta, P. K. (2022). "Energy efficient street lighting: A GIS approach." In Proceedings of the 6th International Conference on Advance Computing and Intelligent Engineering (ICACIE 2021) (pp. 583–593). Springer Nature Singapore. (Published).
2. Kabir, K. A., & Guha Thakurta, P. K. (2023). "Change Detection in LULC for Durgapur: An Efficient GIS-Based Framework." In International Conference on Advanced Computational and Communication Paradigms (ACCP 2023) (pp. 381–390). Springer Nature Singapore. (Published).
3. Kabir, K. A., & Guha Thakurta, P. K. (2024). "Synergizing AHP and TOPSIS MCDM Techniques with GIS for Inclusive Land Suitability Evaluation in Sustainable Development." In AIP Conference Proceedings, Vol. 3164, No. 1, p. 040004. (Published).
4. Kabir, K. A. (2024). "Comprehensive Air Quality Forecasting and Analysis: Integrating Time-Series and Machine Learning Models in Urban Environments." SUSCON-XI, IIM Shillong – Book of Abstracts. (Published).
5. Chowdhury, S., Kabir, K. A., Dhal, D., Pal, R. K., & Saha, G. (2021). "Multiple Fault Identification and Diagnosis in Cross-Referencing Digital Microfluidic Biochips." In Advanced Computing and Systems for Security: Volume 14 (pp. 165–178). Springer Singapore. (Published).

### **Additional Responsibilities:**

NAAC and NBA Team

### **Awards Obtained:**

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