



# Miranda House

## UNIVERSITY OF DELHI

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**Name:** Tarun Kumar Gupta

**Department:** Computer Science

**Current Designation:** Assistant Professor

**Email id:** TARUN(DOT)GUPTA(AT)MIRANDAHOUSE(DOT)AC(DOT)IN

**Academic Qualifications** (reverse chronological order):

1. Pursuing Ph.D. from Jamia Millia Islamia, New Delhi.
2. Completed M.Tech from Jawaharlal Nehru University, Delhi in 2014.
3. Completed M.Sc. (Mathematics) from Jamia Millia Islamia, Delhi in 2010.
4. Completed B.Sc. (G) with Computer Science from University of Delhi in 2008.

**Field of Specialization under the Subject/Discipline:**

1. Soft Computing
2. Artificial Intelligence
3. Deep Neural Network
4. Nature Inspired Algorithm

**Total Teaching Experience:** 04 years

**Teaching at Miranda House since:** 01-Jan-2019

**List of Publications** (reverse chronological order):

1. Optimization of Artificial Neural Network: A bat algorithm-based approach. (Accepted and Presented in 21st International Conference on Intelligent Systems Design and Applications - Springer LNNS Series (SCOPUS Indexed)) Dec 2021.
2. Gupta, T.K., Raza, K. Optimizing Deep Feedforward Neural Network Architecture: A Tabu Search Based Approach. *Neural Process Lett* 51, 2855–2870 (2020). (**SCIE with impact factor 2.908**).
3. Gupta, T. K., & Raza, K. (2019). Optimization of ANN Architecture: A Review on Nature-Inspired Techniques. In *Machine Learning in Bio-Signal Analysis and Diagnostic Imaging* (pp. 159-182). Academic Press.
4. Rawat, R. M., Gupta, T. K., Sajid, M., Prakash, S., Sahu, D. P., Yadav, S. K., & Kumar, C. (2015). An Improved Fuzzy Voting Scheme for Fault Tolerant Systems. *International Journal of Applied Evolutionary Computation (IJAEC)*, 6(2), 41-49
5. Kumar, C., Prakash, S., Kumar, T., & Sahu, D. P. (2014). Variant of genetic algorithm and its applications. In *International Conference on Advances in Computer and Electronics Technology, Hong Kong* (pp. 25-29).
6. Gupta, T. K., & Kumar, C. (2014). Deep Autoencoders for Non-Linear Dimensionality Reduction. *Journal of Bioinformatics and Intelligent Control*, 3(4), 278-283.



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### **Administrative Responsibilities** (reverse chronological order):

1. Working with NAAC 2022 team
2. Working with NIRF 2022 team
3. Worked in NIRF 2021 team.
4. Worked in NIRF 2020 team.

### **Seminars/Workshops/Conferences attended** (reverse chronological order):

1. Participated in 8th DBT- BIF National Workshop on Translational Bioinformatics organized by DCS, Jamia Millia Islamia, New Delhi on April 09-10, 2018.
2. Participated in 7th DBT- BIF National Workshop on Translational Bioinformatics organized by DCS, Jamia Millia Islamia, New Delhi on Feb 15-16, 2017.
3. Attended Symposium on Mathematical Programming and Game Theory at ISI, New Delhi on Jan 9-11, 2017.
4. Participated in International seminar on “Cloud Computing and Distributed Systems” organized by DCS, Jamia Millia Islamia, New Delhi in Dec 2016.
5. Participated in workshop on “Spatial Data Analytics” conducted by GIAN at JNU, New Delhi on Dec 26-30, 2016.
6. Participated as volunteer in Annual Convocation-2016 held at Jamia Millia Islamia, New Delhi.
7. Attended a National seminar on “Recent Trends in Computer Science” organized by DCS, Jamia Millia Islamia, New Delhi in March 2016.
8. Participated in workshop on “Graph Mining and Analysis” conducted by GIAN at Jamia Millia Islamia, New Delhi on Dec 17-23, 2015.
9. Participated in the Symposium organized by the Department of the Computer Science, South Asian University, New Delhi on Image Processing and Pattern Recognition in 2013
10. Attended Symposium on Complex System: From Physics to Biology organized by SCIS & SPS at JNU, New Delhi in 2013.
11. Participated in ACM Computing Quiz program organized at JNU, New Delhi in 2013.
12. Attended “The Author Workshop conducted by Springer and Edanz” at JNU, New Delhi in 2012

### **Faculty Development Program attended** (reverse chronological order):

1. Completed One Week Interdisciplinary Faculty Development Programme on “**Data Science and Machine Learning using Python**” (24th September – 30th September, 2021) organized by Mahatma Hansraj Faculty Development Center, Hansraj College, University of Delhi.
2. Completed Two Week Faculty Development Programme on “**Advance Optimization Techniques and hands-on with MATLAB/SCILAB**” jointly organized by Electronics and ICT Academies held from 13-14 July 2020 under the “Scheme of financial assistance for setting up of Electronics



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and ICT Academies” by Ministry of Electronics and Information Technology (MeitY), Government of India.

3. Completed One Week Faculty Development Programme on “**Open Source Tools for Research**” from June 08 – June 14, 2020, organized by Ramanujan College, University of Delhi.