

# Mir Tanveerul Hassan, Ph.D.

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in mir-tanveer

🗨 MirTanveer

🔍 Google Scholar

🆔 ORCID

🌐 mirtanveer.github.io

## Employment History

2016 – 2017    📌 **Euler's Institute** Mathematics tutor.

2018 – 2021    📌 **Kashmir Institute of Excellence** Physics tutor.

## Education

- 2021 – 2024    📌 **Ph.D., Jeonbuk National University, South Korea**  
CGPA: **4.17** on a scale of 4.50  
Supervisor: Dr. Kil To Chong  
Thesis title: Machine Learning Platform for *In Silico* Analysis and Prediction of Therapeutic Peptides
- 2017 – 2020    📌 **M.Tech., Computer Science, University of Kashmir, India**  
CGPA: **8.85** on a scale of 10.00  
Supervisor: Dr. Rana Hashmy  
Thesis title: Facial Expression Detection Model using Keras
- 2012 – 2016    📌 **B.Tech., Computer Science and Engineering, Islamic University of Science and Technology, Kashmir**  
CGPA: **8.29** on a scale of 10.00  
Supervisor: Mr. Syed Mujtiba Hussain  
Thesis title: Detection of various athlete activities from video sources using MATLAB

## Research Publications

### Journal Articles

- 1    **M. T. Hassan**, H. Tayara, and K. T. Chong, "iAnOxPep: a machine learning model for the identification of anti-oxidative peptides using ensemble learning," *IEEE/ACM Transactions on computational biology and bioinformatics*, 2024 (Accepted).
- 2    **M. T. Hassan**, S. Gaffar, H. Tayara, and K. T. Chong, "IF-AIP: a machine learning method for the identification of anti-inflammatory peptides using multi-feature fusion strategy," *Computers in Biology and Medicine*, vol. 168, p. 107 724, 2024.
- 3    **M. T. Hassan**, H. Tayara, and K. T. Chong, "An integrative machine learning model for the identification of tumor T-cell antigens," *BioSystems*, p. 105 177, 2024.
- 4    **M. T. Hassan**, H. Tayara, and K. T. Chong, "Nall-Pred: An ensemble-learning framework for the identification and interpretation of sodium ion inhibitors by fusing multiple feature representation," *Computers in Biology and Medicine*, vol. 178, p. 108 737, 2024.
- 5    **M. T. Hassan**, H. Tayara, and K. T. Chong, "Possum: identification and interpretation of potassium ion inhibitors using probabilistic feature vectors," *Archives of Toxicology*, pp. 1–11, 2024.
- 6    **M. T. Hassan**, H. Tayara, and K. T. Chong, "Meta-IL4: An ensemble learning approach for IL-4-inducing peptide prediction," *Methods*, vol. 217, pp. 49–56, 2023.

### Conference Proceedings

- 1 **M. T. Hassan** and K. T. Chong, "Aqueous Solubility Prediction Using Deep Learning," in *The Korean Institute of Electrical Engineers Conference*, 2022, pp. 46–47.
- 2 **M. T. Hassan** and K. T. Chong, "iTTCa: A sequence based predictor using feature representation for identifying Tumor T cell antigens," in *Conference on Information and Control Systems (CICS'22)*, 2022, pp. 347–348.
- 3 A. Noor, S. Gaffar, **M. Hassan**, M. Junaid, A. Mir, and A. Kaur, "Hybrid image fusion method based on discrete wavelet transform (DWT), principal component analysis (PCA) and guided filter," in *2020 First International Conference of Smart Systems and Emerging Technologies (SMARTTECH)*, IEEE, 2020, pp. 138–143.

## Skills

Languages	Strong reading, writing and speaking competencies for English, Urdu, Kashmiri.
Coding	Python, C, R, $\text{\LaTeX}$
Libraries	Scikit-Learn, NumPy, Pandas, Keras, TensorFlow, Biopython, Matplotlib, Seaborn,
Misc.	Academic research, teaching, training, consultation, $\text{\LaTeX}$ typesetting and publishing.

## Miscellaneous

### Awards and Achievements

2024-2025	<b>BK 21 Fellowship</b> , Brain Korea Fellowship
2022-2025	<b>BK 21 Scholarship</b> , Brain Korea Scholarship
2018-2020	<b>GATE Fellowship</b> , Ministry of Education (MoE), India
2013-2016	<b>MoMA Fellowship</b> , Ministry of Minority Affairs (MoMA), India

### Internships

2018 Summer	<b>Indian Institute of Technology, Guwahati.</b> Supervisor: Dr Ashish Anand Project: Identification of Named Entities in English and Urdu Wikipedia Data Dumps
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### Workshops and Courses

2014	Attended workshop on Network Security
2018	Attended workshop on Machine Learning
	Course on Linear Algebra, Udemy
2020	Course on Machine Learning, Coursera
	Course on Intuitive Understanding of Probability, Coursera
	Course on Introduction to Machine Learning, NPTEL(IIT Madras)




### Projects

2019	Image Compression using K-means Clustering
2020	Synthesis of Images using DGANs
	Facial Expression Detection Model using Keras
	Computer Vision-Object Detection using OpenCV and Python

## Miscellaneous (continued)

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### Teaching and Presentation

- 2017          **Teaching Assistant**, Linear Algebra  
Responsible for substitute lectures
- 2018          Presentation on various CNN algorithms
- 2022          Presentation on Gene Sequence Alignment and Dynamic Programming

## References

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### Dr. Hilal Tayara

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