



Alik Pramanick

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Ph.D. in Computer Science and Engineering

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
Ph.D. in CSE	Indian Institute of Technology, Guwahati	8.50	2021-Present
M.Tech. in CSE	Defence Institute of Advanced Technology, Pune	8.66	2018-2020
M.Sc. in CS	Pondicherry University	9.39	2016-2018
B.Sc. in CS	University of Calcutta	71.5%	2013-2016

EXPERIENCES

- Teaching Assistant** at IIT Guwahati *Jan'21 - Present*
- Mentor** at PAL Program in IIT Guwahati for CS101 *Feb'24 - Apr'24*
- Teaching Assistant** at DIAT *July'18 - Apr'20*
- Intern** at Indian Institute of Remote Sensing, ISRO *Dec'17 - Apr'18*

PUBLICATIONS

- Turbit: Generating Turbid Underwater Images With Diffusion And Differential Transformers.** [ICIP'25]
- Diffusion Based Shape-Aware Learning With Multi-Scale Context For Segmentation Of Tibiofemoral Knee Joint Tissues: An End-To-End Approach.** [ICIP'25]
- Harnessing multi-resolution and multi-scale attention for underwater image restoration.** [The Visual Computer'25]
- River-GEM: Generating and Enhancing Muddy Water Images,** [ICASSP'25]
- Efficient-USR: Prompt Guided Dual-Domain Feature Information for Efficient Underwater Image Super-Resolution,** [ICASSP'25]
- MedCAM-OsteoCls: Medical Context Aware Multimodal Classification of Knee Osteoarthritis.** [ICASSP'25]
- ML-CrAIST: Multi-scale Low-High Frequency Information-Based Cross Attention with Image Super-Resolving Transformer.** [ICPR'25]
- X-CAUNET: Cross-Color Channel Attention with Underwater Image-Enhancing Transformer,** [ICASSP'24]
- Attention-Based Spatial-Frequency Information Network for Underwater Single Image Super-Resolution,** [ICASSP'24]
- Two-stream mid-level fusion network for human activity detection,** [ICICC'20]
- MobiSamadhaan—Intelligent Vision-Based Smart City Solution,** [ICICC'20]

PROJECTS

- Underwater vision using deep learning architectures** [Ph.D thesis] *Jan'22 - Present*
- Deep Learning based Human Activity Detection for Video Surveillance.** [M.Tech Project] *Oct'19 - Apr'20*
- Detection, identification and monitoring of vehicle in residential societies** [Course Project] *Feb'20 - Apr'20*
- An Application of 3D Modelling For Digital Documentation of Cultural Heritage.** [M.Sc. Project] *Jan'18 - May'18*
- An Application Of Multispectral Image Processing.** [B.Sc. Project] *Jan'16 - May'16*

TECHNICAL SKILLS

- Programming:** Python, C/C++
- Machine Learning Framework:** PyTorch, Keras, Tensorflow

RESEARCH INTEREST

- Computer Vision, Deep Learning, Machine Learning**

ACHIEVEMENTS

- Travel grant** to attend the 2025 IEEE International Conference on Acoustics, Speech and Signal Processing.
- Winner** of Smart India Hackathon, 2019.
- Selected** for Ph.D. admission (July, 2020) at IIT Kharagpur, IIT Guwahati, IIT Patna and IIT Jodhpur.
- MHRD Scholarship** for M.Tech (2018-2020) and PhD (2021 - present).
- Qualified NET** 2019 December examination with Lectureship.
- Qualified GATE** 2018 and 2020.

VOLUNTEERING ACTIVITIES

- Served as a reviewer in ICPR, ICASSP, IEEE TGRS, ACM TIST
- Served as a session chair in ICASSP 2025
- Technical Administrator of DGX Servers under Prof. Arijit Sur

EXTRA-CURRICULAR ACTIVITIES

- Cooking, Traveling, Playing Cricket, Table Tennis, Football, Volleyball, Badminton