Nabojwal Acharjee

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Google Scholar

Research Interests

Vision Transformers, Diffusion Models, GANs, Neural Radiance Fields, Manifold Learning, Metaheuristic Algorithms, CNNs

Objective

A passionate and dedicated graduate student in Electronics and Communication Engineering, specializing in deep learning-based biomedical image processing. I aim to contribute innovative research to advance ML/DL-based affordable healthcare applications for the early detection and treatment of critical diseases.

Education

Tezpur (Central) University **Assam, India**
Ph.D. in Electronics and Communication Engineering *2023 – Present*
Research Area: Biomedical Image Processing using Deep Learning.
CGPA: 9.38/10

North Eastern Regional Institute of Science and Technology **Arunachal Pradesh, India**
M.Tech in Electronics and Communication Engineering *2019 – 2021*
Thesis: Performance Comparison of a β-Ga_2O_3-based HEMT for Different High-k Dielectric Passivation.
CGPA: 9.04/10 Department Rank: 2

North Eastern Regional Institute of Science and Technology **Arunachal Pradesh, India**
B.Tech in Electronics and Communication Engineering *2014 – 2017*
Project: Analysis of Correlation and Cochannel Interference in Cellular Network
CGPA: 4.23/5

Tripura (Central) University **Tripura, India**
Diploma in Electronics and Telecommunication Engineering *2011 – 2014*
CGPA: 7.81/10

Publications

Journal

[J1]: **N. Acharjee**, S. Singh, A. P. Dadi, S. Bordoloi, and A. Ray, "Investigation of High-k Dielectric Passivation Effects on DC Performance of AlN/β-Ga_2O_3 HEMTs," *Semiconductors*, vol. 59, no. 5, pp. 452–464, May 2025. doi:10.1134/S1063782624602632.

Technical Skills

- **Domains:** Machine/Deep Learning
- **Languages:** Python, MATLAB
- **Frameworks:** PyTorch, TIMM, HuggingFace etc.
- **Tools:** LaTeX, OriginLab, MS Office (Excel, Word, PowerPoint)

Soft Skills

• Adaptability and quick learning ability.

• Strong collaboration and teamwork skills, demonstrated through mentoring and interdisciplinary research.

• Excellent written and verbal communication skills, with experience of writing research papers and presenting research at conferences.

• Effective time management and project management skills, developed through balancing research, coursework, and lab responsibilities.

Fellowships and Scholarships

• Visvesvaraya PhD Fellowship, MeitY, Govt. of India 2023–Present
• Ishan Uday NER Scholarship, UGC, Govt. of India 2014–2017
• NEC Scholarship, DoNER, Govt. of India 2011–2014

Teaching / Mentoring

• Assisted in Lab Sessions on Digital Signal Processing, Tezpur University
• Assisted in Lab Sessions on Digital and Analog Communication Engineering
• Assisted M.Tech and B.Tech students on final year projects related to biomedical signal/image processing with Deep Learning.

References

Prof. Ashok Ray
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