# Dibaloke Chanda

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## Work Experience

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| Jan 2023 - Present | **Graduate Teaching Assistant in Marquette University** |
| March 2021 - Dec 2022 [Full Time] | **Lecturer** <br> *Military Institute of Science and Technology (MIST)* |
| Mar 2021 - Dec 2022 [Part Time] | **Research Mentor** <br> *Visual Information Processing(VIP) Lab, MIST* <br> • R&D on Computer Vision Applications, Machine Learning Architectures. <br> • Mentoring young researchers and conducting technical sessions. |
| Jul 2020 – Feb 2021 | **Senior Mentor (Android and IOS App Development)** <br> *MIST Innovation Club* |

## Education

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| Jan 2023 - Present | **Marquette University, Milwaukee, WI** <br> *Ph.D. in Computer Science (GPA: 4.00 till now)* |
| Feb 2017 - Feb 2021 | **Military Institute of Science and Technology, Bangladesh University of Professionals(Dhaka, Bangladesh)** <br> *B.Sc. in Electrical, Electronic and Communication Engineering* <br> (Major: **Communication**, CGPA: **3.98/4.00**, Rank: **2/87** ) |

## Research Interests

• Computer Vision • Explainable AI • Machine Learning • Probabilistic Models • Generative AI • Graph Neural Network

## Relevant Courses

• Calculus • Vector analysis, Matrices and Geometry • Complex Variables and Statistics • Computer Programming • Continuous Signals and Linear Systems • Digital Communication • Digital Signal Processing • Random Signals and Processes

## Technical Skills

- **Programming Languages and Tools:** *Python, Matlab, R, C, C++, LaTeX, Java, Javascript, SQL, PHP, Dart, Assembly*
- **Deep Learning & Computer-vision Packages:** *Keras, TensorFlow, PyTorch, Scikit-Learn, Open-CV, Mediapipe*
- **Web Development & App Development:** *Nodejs, Django, Flask, Flutter*
- **Data Processing & Visualization:** *Numpy, Pandas, Matplotlib, Seaborn, Plotly*
- **Robotics:** *Arduino, Raspberry Pi & Micro-controllers*
- **Graphics Design Software:** *Inkscape, Adobe XD*
- **Other Software:** *Pspice, Orcad, Proteus Design Suite*
- **Networking Software:** *Cisco Packet Tracer*

## Selected Certifications | Issued by Coursera

- Computer Vision Basics
- Data Science Math Skills
- Managing Machine Learning Projects with Google Cloud
- Understanding and Visualizing Data with Python
- Inferential Statistical Analysis with Python
- Neural Networks and Deep Learning
- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization

- Structuring Machine Learning Projects
- Convolutional Neural Networks
- Sequence Models
- Deep Learning Specialization