Avideep Mukherjee

CONTACT
INFORMATION

RM-504, Rajeev Motwani Building,
IIT Kanpur,
Kanpur, Uttar Pradesh

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EXPERIENCE

Indian Institute of Technology Kanpur, Kanpur, India

Teaching Assistant   July, 2018 - Present

Indian Statistical Institute, Kolkata, India

Summer Intern   May, 2017 - July, 2017

EDUCATION

Indian Institute of Technology Kanpur, Kanpur, India

PhD in Computer Science and Engineering   July, 2018 - Present
Advisor : Prof. Vinay P. Namboodiri

Ramakrishna Mission Vivekananda Educational and Research Institute, Belur, West Bengal, India

MSc in Computer Science   August, 2016 - June, 2018

- Dissertation Topic: A Medoid Based Weighting Scheme for Qualitative Improvement of Nearest Neighbor Decision Rule
- Advisor: Dr. Tanmay Basu
- Division: First (93.2 %, CGPA 9.32)

Ramakrishna Mission Vidyamandira, University of Calcutta, Kolkata, West Bengal, India

Bachelor of Science   July 2013 - May, 2016
- Honours: Computer Science
- Minors: Mathematics and Electronics
- Division: First (77.5 %)

Calcutta Airport English High School (H.S.), West Bengal Council for Higher Secondary Education, West Bengal, India

Higher Secondary Examination (10+2)   July 2011 - February, 2013

- Major Subjects: Mathematics, Physics, Chemistry, Computer Science, English Bengali
- Division: First (80 %)

Calcutta Airport English High School (H.S.), West Bengal Board of Secondary Education, West Bengal, India

Secondary Examination   July 2009 - May, 2011

- Major Subjects: Language Subjects, Mathematics, Physical Science, Geography, History
- Division: First (88.38 %)

RESEARCH
INTERESTS

Machine Learning, Deep Learning, Reinforcement Learning, Computer Vision, Image & Video Processing,

TECHNICAL
SKILLS

C, C++, Python, Java, Haskell, Shell Script and Linux, Windows Operating Systems and LaTeX, R, MatLab, GNU Octave, NLTK and Scikit-Learn tools, Keras, Tensor-Flow, PyTorch, DialogFlow, NVIDIA Jetson TX2, OpenCV, Hadoop (Map-Reduce and Pig), DBMS, Android Application Development (Beginner).

PUBLICATIONS

❑ Mukherjee, A Basu, T 2018, '*An Effective Nearest Neighbor Classification Technique Using Medoid Based Weighting Scheme*', in Robert Stahlbock, Gary M. Weiss, Mahmoud Abou-Nasr, Proceedings of the 2018 International Conference on Data Science, pp. 231-4.

PROJECT
WORKS

- **Event Recognition On Unconstrained Videos**: Unprofessionally handled videos are considered and an algorithm is developed taking only spatial features from the frames to identify what is happening in those videos. *This project was awarded a special mention among other projects in the summer school.*

- **A Medoid Based Weighting Scheme for Qualitative Improvement of Nearest Neighbor Decision Rule**: Some of the limitations of the k nearest neighbor classification technique are addressed and a novel weighting scheme is proposed based on medoids of different class regions.

- **Empirical Analysis of various Machine Learning and Deep Learning Algorithms on different Domains**: A course project for the course CS771A: Introduction to Machine Learning.

- **A Conversational Assistant for the CSE Department at IIT Kanpur** : A course project for the course CS727: Topics in Internet Technologies.

- **Assisting in Disaster Management by Analyzing Micro-blogs**: A course project for the course CS685: Data Mining

- **Drone Swarm Development for Humanitarian Assistance and Disaster Relief**: Working on the vision team that detects person from a height between 50 and 80 metres in real-time. This is an ongoing project of the Indian Air Force.

RELEVANT
ACHIEVEMENTS

- Qualified NET examination with Lectureship.
- M.Sc Gold Medalist.
- Got Selected for Admission to PhD Programme in IIT Gandhinagar and IIT Patna
- Qualified GATE 2018 with 95.62 Percentile.
- Google India Challenge Scholarship Awardee.

PERSONAL
INFORMATION

Date of Birth:	November 27, 1995
Sex:	Male
Citizenship:	Indian
Languages Known:	English, Bengali (Read/Write/Speak), Hindi (Speak only)

UPDATED: MARCH 8, 2019

PLACE: KANPUR, INDIA

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