

Alik Pramanick

CONTACT INFORMATION

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EDUCATION

Defence Institute of Advanced Technology, Pune, Maharashtra, India

- M.Tech in Computer Science & Engineering, June, 2018 - May, 2020
- Dissertation Topic: An Application of Deep Learning Based Human Activity Detection for Video Surveillance
 - Advisor: Dr. Sunita Dhavale
 - Division: First (CGPA 8.66)

Pondicherry University, Puducherry, India

- M.Sc in Computer Science, June 2016 - May, 2018
- Dissertation Topic: An Application of 3D Modelling for Digital Documentation of Cultural Heritage
 - Advisor: Dr. Poonam S. Tiwari (IIRS, Dehradun) and Dr. V. Uma
 - Division: First (CGPA 9.39)

Ramakrishna Mission Vidyamandira, Howrah, West Bengal, India

- B.Sc in Computer Science, June, 2013 - May, 2016
- Dissertation Topic: An Application Of Multispectral Image Processing
 - Advisor: Mr. Avishek Barman
 - Division: First (71.5%)

Krishnagar High School, West Bengal Council of Higher Secondary Education, West Bengal, India

- Higher Secondary Examination (10+2), July 2011 - May, 2013
- Major Subjects: Bengali, English, Chemistry, Physics, Mathematics, Computer Application
 - Division: First (68.8 %)

Dayer Bazar Vidyamandir (H.S.), West Bengal Board of Secondary Education, West Bengal, India

- Secondary Examination, July 2009 - May, 2011
- Major Subjects: Bengali I, Bengali II, English, Mathematics, Physical Science, Life Science, Geography, History
 - Division: First (74.12 %)

RESEARCH INTERESTS

Machine Learning, Deep Learning, Computer Vision, Data Structure and Algorithm.

TECHNICAL SKILLS

Python, Keras, TensorFlow, PyTorch, C, C++, OpenCV, JAVA, Shell Script, Windows and Latex, R, MySQL, Oracle DB, PostgreSQL, JavaScript, HTML, CSS.

PROJECT WORKS

❑ An Application of Deep Learning based Human Activity Detection for Video Surveillance.(Oct, 2019 - Mar, 2020)

Activity recognition is useful in many applications such as surveillance, anti-terrorists, and life logging and assistance. In this project, we design a single stream and two

stream model to detect various activities of persons by correlating spatio-temporal feature in a video.

❑ **Mobishamadhaan: Intelligent Vision Based Smart City. (Feb, 2019 - June, 2019)**

MobiSamadhaan is an artificial intelligence (AI)-based approach toward a universal mobility solution for the problems concerning with daily hassles of traffic and unbalanced transportation catering to the needs of India's smart cities mission. We implemented vision-based solutions for tracking, forecasting, and surveillance through spatio-temporal analysis of traffic data using deep learning and machine learning techniques.

❑ **E-Vahannigrani: Detection, identification and monitoring of vehicle in residential societies. (Feb, 2020 - April, 2020)**

A real time automated unique vehicle surveillance system for detecting and recognizing number plates.

❑ **Reverse Engineering to Detect Malicious Function.**

A course project for the course CE669: Reverse Engineering & Malware Analysis.

❑ **An Application of 3D Modelling For Digital Documentation of Cultural Heritage. (Dec, 2017 - April, 2018)**

This project deals with development of software that can Analyse, Detect and Report about the Changes and Damages taking place or tending to occur over time, such that the heritages can be maintained well throughout.

❑ **An Application Of Multispectral Image Processing. (Jan, 2016 - March, 2016)**

The aim of this project is to combine two such Multispectral images to make a new image, which contains a better description of the scene than the one provided in any of the individual images.

PUBLICATIONS

❑ **Mobishamadhaan: Intelligent Vision Based Smart City**

Authors: Mainak Chakraborty, Alik Pramanick, Sunita Vikrant Dhavale
International Conference on Innovative Computing and Communications. Advances in Intelligent Systems and Computing, vol 1165. Springer, Singapore (2020). https://doi.org/10.1007/978-981-15-5113-0_24

❑ **Two Stream Mid Level Fusion Network for Human Activity Detection**

Authors: Mainak Chakraborty, Alik Pramanick, Sunita Vikrant Dhavale
International Conference on Innovative Computing and Communications. Advances in Intelligent Systems and Computing, vol 1165. Springer, Singapore (2020). https://doi.org/10.1007/978-981-15-5148-2_30

EXPERIENCE

- ❑ Freelancer - 2016 to 2018 - www.cheeggindia.com
- ❑ Intern at Indian Institute of Remote Sensing, ISRO
- ❑ Teaching Assistant at DIAT

RELEVANT
ACHIEVEMENTS

- Qualified GATE 2018 and 2020.
- The Winner of Smart India Hackathon, 2019 (Software Edition).
- Qualified NET 2019 December examination with Lectureship.
- Got selected for Ph.D. admission at IIT Kharagpur, IIT Guwahati, IIT Patna and IIT Jodhpur.
- Got selected for JRF post at DIAT

CO-CURRICULAR
ACTIVITIES

- Certificate of participation from Indian Institute of Remote Sensing, Dehradun, Uttarakhand on "Close Range Photogrammetry and terrestrial Laser Scanning"
- Certificate of participation from Defence Institute of Advanced Technology, Pune, Maharashtra, On "Internal Smart India Hackathon 2020"

EXTRACURRICULAR
ACTIVITIES

- Cooking, Travelling, Listening music
- Playing Football, Table Tennis, Cricket, Volleyball

PERSONAL
INFORMATION

Date of Birth: November 10, 1995
Sex: Male
Citizenship: Indian
Languages Known: Bengali, English, Hindi.

DATE: OCTOBER 29, 2020

PLACE: NADIA, INDIA

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