

# Abhishek Maity

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## OBJECTIVE

Looking for opportunities in areas involving Software Development & Machine Learning (ML) applications

## EDUCATION

### WEST BENGAL UNIVERSITY OF TECHNOLOGY

B. TECH IN COMPUTER SCIENCE

Jun 2014 | Kolkata, IN

Guru Nanak Institute of Technology

CGPA: 7.36 / 10

### S. E. RLY. MIXED H. S. SCHOOL ISC | CLASS 12

May 2009 | Kharagpur, IN

AGGREGATE 69.33%

### ICSE | CLASS 10

May 2007 | Kharagpur, IN

AGGREGATE 87.13%

## SKILLS

### LANGUAGE

C • Python • Java • HTML • bash •  $\text{\LaTeX}$

### DATABASE

Oracle PL/SQL • MS SQL (basic)

SQLite3

### SOFTWARE

MS Office • VS Code • MATLAB (basic)

GIMP • Inkscape • PolSARpro

### PLATFORMS

Linux • MS Windows • MS Visual Studio

## COURSEWORK

### UNDERGRADUATE

Data Structures & Algorithms + Practicum

Graph Theory & Discrete Mathematics

Computer Organization & Architecture

Operating Systems

Computer Networks

Digital Electronics + Practicum

Database Management System

Automata Theory + Compilers

Software Engineering

Computer Graphics

### INDEPENDENT

Machine Learning

Neural Networks and Learning

Fuzzy Logic & Inference Systems

Microwave Remote Sensing

## EXPERIENCE

### IIT BOMBAY | JUNIOR RESEARCH FELLOW

February 2016 – March 2017 | Mumbai, IN

Microwave Remote Sensing Lab | Prof. (Dr.) Avik Bhattacharya

India-Trento Programme for Advanced Research (ITPAR) Phase III

- Investigating Optical and Radar Remote Sensing (RS) data.
- Classification and Change Detection using Machine Learning (ML) techniques.
- Development of open-source toolbox HimSAR for snow & ice SAR applications.

### NATIONAL INFORMATICS CENTRE (NIC) | TRAINEE INTERN

Jun 2013 – Jul 2013 | Kolkata, IN

Project: Agri-Portal matir-katha | Shri. Amitava Bose

Directorate of Agricultural Marketing, Government of W.B.

- Development of web based cold storage data system for West Bengal, India.
- MVC model, C# using ASP.NET for programming along with Javascript used.

## PROJECTS

### SOFTWARE LAB | UNDERGRADUATE PROJECT MEMBER

Guru Nanak Institute of Technology | Jun 2013 – Jul 2014 | Kolkata, IN

Project: Human Detection (face) using Morphological Analysis and Image Parsing.

- Skin tone segmentation along with hole filling techniques were implemented.
- An approximate avg. RGB skin color sub-set logic was determined & applied.

## PUBLICATIONS

- A Maity, S Dasgupta, and D Paul. "A Novel Approach to Face Detection using Image Parsing and Morphological Analysis. IJCTT 23.4 (2015): 155-161.
- A Muhuri, S De, S Manickam, S Dhingra, S Hariharan, A Maity, D Ratha, and A Bhattacharya. "Novel Scattering Power Decomposition Techniques for Full and Compact Polarimetric SAR Data." ID-278. ISRS 2016.
- S De, A Maity, V Goel, S Shitole, A Bhattacharya. "Predicting the popularity of instagram posts for a lifestyle magazine using deep learning. IEEE CSCITA 17.

## WORKSHOPS

- SciPy India 16; FOSSEE; IIT Bombay • IW-RSIA 16; DST; IIT Bombay
- Hack-X-Pl0it 13; Lucideus Tech; JU • NSSAMCS 13; AICTE; GNIT

## AWARDS

- |      |             |                           |
|------|-------------|---------------------------|
| 2016 | Best Poster | ISRS-ISG Annual Symposium |
| 2016 | GATE (2015) | DST Fellowship            |

## SOCIETIES

- |              |               |   |
|--------------|---------------|---|
| 2016-2017    | Regional      | Special Interest Group on Deep Learning |
| 2016-present | International | ISPRS Individual Member                 |
| 2011-present | International | IEEE                                    |

## REFERENCES

On request