

# Nabagata Saha

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## EDUCATION

### NIT WARANGAL

B.TECH IN COMPUTER SCIENCE

### KENDRIYA VIDYALAYA, SALT LAKE HIGH SCHOOL

AISSCE (CBSE) | May 2016 | Kolkata, WB • Percentage: 95.6%

## LINKS

Github:// [nabagata](#)

LinkedIn:// [nabagata-saha](#)

## COURSEWORK

### UNDERGRADUATE

Data Structure & Algorithms

Programming in C++

File Structures

Discrete Mathematical

Database Management Systems

Systems Programming

Object Oriented Programming in Java

## POSITIONS

### TEDXNITW | CURATOR

Aug 2017 - May 2018

Worked with a huge team of around 40 people to organize NITW's first ever TED talk with guest speakers like Partha Pratim Talukdar and Shikha Pandey.

### CSEA | EXECUTIVE MEMBER

Aug 2017 - May 2018

Worked in organizing computer science related events like Hackathons in our college.

## SKILLS

### PROGRAMMING

Languages:

C • C++ • Python • JAVA • MySQL

Packages:

L<sup>A</sup>T<sub>E</sub>X • Tensorflow • PyTorch

### OPEARTING SYSTEMS:

Linux

## RESEARCH

### MILE LAB, INDIAN INSTITUTE OF SCIENCE (IISC) | SUMMER

#### RESEARCH INTERN

May 2018 – July 2018 | Bangalore, Karnataka

- Worked with Ram Krishna Pandey and Prof A.G. Ramakrishnan to create RobustLossFunction, which works in improving deep learning based super resolution models, such as ESPCN and SRCNN, without affecting the computational cost while testing. Publication submitted at ICONIP 2018.
- Worked with Ram Krishna Pandey and Prof A.G. Ramakrishnan in improving existing facial emotion classification models. Significant improvement was observed in accuracy of correct identification of the human emotions. Publication submitted at BMVC 2018.

## SELECTED PROJECTS

### FACIAL EMOTION RECOGNITION | TENSORFLOW

Facial emotions has been recognized using convolutional neural network. They were mainly categorized into seven different classes: Afraid, Angry, Disgusted, Happy, Neutral, Sad and Surprised.

### DROWSINESS DETECTION | OPENCV

Driver drowsiness detection is a car safety technology which helps prevent accidents when the driver gets drowsy.

### DATABASE DESIGN OF AN E-GOVERNMENT PLATFORM | MYSQL

Created the logical data model and implementation data model for an e-government platform database as a part of the database systems course. The documentation can be found at this link. [pdf]

## ACHIEVEMENTS AND HONORS

### GOOGLE INDIA CHALLENGE SCHOLARSHIP | ANDROID DEVELOPER

Feb 2018 - May 2018

Worked with mentors to develop a Quiz application on the android platform.

### HP ENTERPRISE | ANDROID DEVELOPER

June 2017 - July 2017

Successfully completed training on the android platform.

### MEDHA PURUSKAR | 2014

Awarded for meritorious performance in CBSE-X

### NATIONAL SPELLBEE | 2012

Represented my school in the regional competition.

## PUBLICATIONS

### IMPROVING SUPER-RESOLUTION ALGORITHMS BY AN EDGE PRESERVING ROBUST LOSS FUNCTION | ICONIP 2018

Dec 2018 | Siem Reap, Cambodia

R. K. Pandey, N. Saha, S. Karmakar, A. G. Ramakrishnan, "Improving super-resolution algorithms by an edge preserving robust loss function". Accepted at the 25th International Conference on Neural Information. Processing at Siem Reap, Cambodia.