

# Immanuel Savio

4<sup>th</sup> yr, Department of Computer Science and Engineering  
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## EDUCATION

**SIKKIM MANIPAL  
INSTITUTE OF  
TECHNOLOGY, MAJITAR**  
BACHELOR'S IN COMPUTER SCIENCE  
AND ENGINEERING  
CGPA : 7.9

**VELAMMAL VIDHYASHRAM  
CBSE**  
INTERMEDIATE/+2  
PERCENTAGE : 92%

**GULF ASIAN ENGLISH  
SCHOOL, SHARJAH**  
SECONDARY SCHOOL / 10<sup>th</sup>  
CGPA : 9.8

## LINKS

Github:// [immanuelsavio](#)  
LinkedIn:// [immanuelsavio](#)

## SKILLS

### PROGRAMMING LANGUAGES

#### PROFICIENT

C • C++ • Java • Python  
MySQL • MongoDB • HTML  
CSS • JavaScript

#### KNOWLEDGE OF

Bash Script • Shell Script • R  
Python • Google Go • Node.JS  
RethinkDB • MATLAB • Google Colab

#### SOFTWARE PACKAGES

OpenMP • MPI • NumPy • SciPy  
Pandas • Keras • TensorFlow  
Scikit-Learn • Firebase

#### TOOLS

GIT • GitHub • VSCode • AWS  
MySQL Workbench • Microsoft  
SQL-Server • LaTeX • MS-Office

## EXPERIENCE

### INDIAN STATISTICAL INSTITUTE | M I U | RESEARCH INTERN

May 2019 – Present | Kolkata

- Part of the algorithm designing team under Dr. Ashish Ghosh, aimed to reduce the processing time of heavy datasets atleast by 15% using Distributed Deep Learning Architecture of Auto Encoder based Image processing algorithms.

### NIT, ROURKELA | RESEARCH INTERN

December 2018 – January 2019 | Odisha

- Drowsiness detection by analysis of EEG Signals with the help of different Deep learning architectures in TensorFlow
- Application of Hybrid Deep Learning Architectures for Prediction of Goaf Fall Area in Coal Mines

### MADRAS INSTITUTE OF TECHNOLOGY (MIT) RESEARCH INTERN

May 2018 – July 2018 | Chennai

- Analysis of different Deep Learning architectures in context of different Deep Learning Architectures using Keras and TensorFlow

### UNTAPPED TECHNOLOGIES PVT. LTD. | BACK-END DEVELOPER

October 2018 – February 2019 | Sikkim

- I worked on the Go Lang implementation of their parser and also their servers on AWS and worked on their Rethink-DB and API on AWS

## PROJECTS

### 3D-QBDSONN | Quantum Self Supervised Network

July 2018 - November 2018 | Sikkim

Involved in creating a model of a 3D-Quantum Bi-directional Self Organizing Neural Network architecture for object extraction from a noisy perspective

### SAR TO ATR | B.Tech Mini Project

April 2018-Present | Sikkim

Fully Automated SAR Image Segmentation for Automatic Target Recognition(ATR) in Defence Sector using Quantum Inspired Bidirectional Self-Supervised Neural Network.

### ANOTE IT | Image Annotation Program

October 2018 - April 2019 | Sikkim

Automatic Image Annotation of Images using pretrained InceptionV3 edited to perform image embedding to a vector by applying transfer Learning as a comparison to the DarkFlow algorithm

### PARAM SHAVAK TEST | Parallel Processing Project

October 2017 - February 2018 | Sikkim

Analysis of Parallel processing speeds of the Param Shavak supercomputer, IBM Tower Server and the HP 440 G3 by running parallel programs of prime number generation, Fourier transform (Fast and Discrete) in C parallelized by OpenMP (parallel processing library by Intel)

## PUBLICATIONS

- [1] I. Savio and U. K. Chakraborty. Genetic algorithm : An approach on optimisation (accepted - to be published). In Proceedings of The International Conference on Communication and Electronic Systems, 2019.
- [2] J. Singam, I. Savio, and P. Battu. Online evaluation of underground mine atmosphere and scope of application of wsn. (issn:0974-6714). In The proceedings of National Symposium on Integrated Development of Mines and Mineral Based Industries with Waste Management, 2018.

## POSITIONS OF RESPONSIBILITY

### **IEEE STUDENT CHAIR | June 2018 - Present**

Holding the responsibility of the IEEE Student Chair of my college, responsible for actively leading all IEEE conferences and activities in the college and to improve the need and interest for research among the students in the college. I played a major role in leading the IEEE ICACCP 2019 conference in SMIT

### **ACCESS DEPT. VICE PRESIDENT | October 2018 - Present**

I currently hold the post of Dept. Vice President of the ACCESS (Computer Science Council) and Computer Science Department.

### **TECHNICAL HEAD - D'CODERS | August 2018 - Present**

Currently a part of the D'Coders coding club of SMIT in the position of Technical Lead for the club to take care of all the workshops and the coding events taking place under it.

### **ACCESS DEPARTMENTAL REPRESENTATIVE | October 2017 - August 2018**

Was a departmental representative for the Computer Science and Engineering Department, responsible for conduct of departmental events in our semester and a coordination between department professors and students

## WORKSHOPS / CONFERENCES / COURSES

### **CISCO CERTIFIED NETWORK ASSOCIATE – SWITCHING AND ROUTING | May 2017 - August 2017**

Took the Cisco Certified Network Associate course and covered all topics of CCNA Switching and Routing course

### **ICACCP 2017, 2019 | September 2017 | April 2019**

Took part in the ICACCP - 2017 and was in the Core Organizing committee of the ICACCP - 2019 in SMIT

### **PARAM SHAVAK HPC WORKSHOP | January 2018**

## ACHIEVEMENTS AND EXTRA CURRICULAR

### **CODEZEN COMPETITION | ALL INDIA RANK 11**

Participated in the CodeZen, an algorithmic coding competition by Coding Ninjas and won Rank 1 in SMIT and All India Rank 11.

### **IMAGE PROCESSING COMPETITION**

Secured 2 nd position in the Image Processing competition conducted by IIT Roorkee in SMIT

## REFERENCES

### **DR. SATHIESH KUMAR (PH.D. IIT MADRAS)**

Assistant Professor, Department of Electronics and Engineering, Madras Institute of Technology, Anna university, Chromepet, Chennai – 600044, +919444721638, sathieshkumar@annauniv.edu

### **DR. UDIT KR. CHAKRABORTY (PH.D. UNIV. OF CALCUTTA)**

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