

# Immanuel Savio

4<sup>th</sup> yr, Department of Computer Science and Engineering  
Sikkim Manipal University  
immanuelsavio@gmail.com | 8972149699

## EDUCATION

**SIKKIM MANIPAL  
INSTITUTE OF  
TECHNOLOGY, MAJITAR**  
BACHELOR'S IN COMPUTER SCIENCE  
AND ENGINEERING  
CGPA : 7.6

**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 • RethinkDB

#### KNOWLEDGE OF

Bash Script • Shell Script • R  
Google Go • Node.JS • MATLAB

#### SOFTWARE PACKAGES

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

#### TOOLS

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

## EXPERIENCE

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

May 2019 – July 2019 | Kolkata

- Workd under Dr. Ashish Ghosh, aimed to reduce the processing time of heavy datasets using Distributed DL with parameter averaging and unsupervised meanshift clustering of Auto Encoder based 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 Plant Species Recognition from leaf images 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 in Defence Sector using Quantum Bidirectional Self-Supervised Neural Network.

### ANOTE IT | Image Annotation Program

October 2018 - April 2019 | Sikkim

Automatic Image Annotation 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 for 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. 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**

Responsible for actively leading all IEEE conferences and activities in SMIT.

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

ACCESS is the Computer Science council of SMIT, where I handle all departmental events.

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

D'Coders is a coding club of SMIT where I play a key role in organizing workshops and coding events.

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

Was responsible for conduct of departmental events in our semester and a coordination between 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**

Conducted by C-DAC and covered topics including OpenMP, MPI, and how to parallelize programs to increase their efficiency.

## ACHIEVEMENTS AND EXTRA CURRICULAR

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

CodeZen an algorithmic coding competition by Coding Ninjas and won Rank 1<sup>st</sup> in SMIT and Rank 11 in India.

### **IMAGE PROCESSING COMPETITION**

Secured 2<sup>nd</sup> position in the Image Processing competition conducted by IIT Roorkee in SMIT

### **GOOGLE FOOBAR CHALLENGE**

Got selected and successfully completed the Google Foobar Challenge in 15 days(July 2019).

## 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)**

Associate Professor Department of Computer Science Engineering Sikkim Manipal Institute of Technology  
Phone: Office: (03592) 246216-220 Extn: 419 Mobile: (+91) 7602019487 Email: udit.c@smit.smu.edu.in

### **DR. SUCHISMITA CHINARA (PH.D NIT ROURKELA)**

Assistant Professor Grade-I Department of Computer Science and Engineering National Institute of Technology, Rourkela, Odisha Phone: Office: 0661 246 2361 Email: suchismita@nitrkl.ac.in