

# TANMAYEE NARENDRA

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**ACHIEVEMENTS** | **WINNER** of *AppLift Datathon* held on 29-30<sup>th</sup> Nov, 2015.

**FIRST RUNNER UP** of *Swiss-Re BlueMix Hackathon* held on 30-31<sup>st</sup> January, 2016

**DEAN'S MERIT LIST CERTIFICATE** awarded for 8 semesters in IIIT-B for high CGPA

**INSTITUTE MERIT SCHOLARSHIP HOLDER** from 2013 – 2016 at IIIT Bangalore

**PARTICIPANT** of Regional Round of *ACM ICPC (Amritapuri Region)* in 2015 and 2013

**THIRD PLACE** in India in *IEEE Xtreme 8.0* (24-hour programming competition) in 2014

**EXPERIENCE** | **VISITING STUDENT** MIT MEDIA LAB, CAMBRIDGE USA  
MAY 2015 – AUGUST 2015

Worked on the Andorra Living Lab Project under Prof Sandy Pentland and Prof Kent Larson. Specifically, modelled the movement of people along a shopping street using WiFi metadata from routers. Access point churn and seasonal variation of tourist influx was also studied.

**RESEARCH INTERN** FIELDS OF VIEW, BANGALORE  
SEP 2014 – JAN 2015

Was part of an inter-disciplinary, multi-cultural team that developed ₹ubbish, a bilingual gaming simulation on solid waste management system in Bangalore. This project was done in collaboration with *Medialab Amsterdam* and *Cisco* and has been extensively featured in local mass media.

**SUMMER INTERN** FIELDS OF VIEW, BANGALORE  
MAY 2014 – JUNE 2014

Developed an Arduino based sensor array framework for data collection for an energy efficient smart campus. This project qualified for the 2<sup>nd</sup> round of the Intel Embedded Challenge, 2014.

**SUMMER INTERN** CENTRE FOR IT AND PUBLIC POLICY, BANGALORE  
JUNE 2014 – JULY 2014

Tested usability, reliability and correctness of Indian government websites for the visually impaired

**EDUCATION** | **INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY**, BANGALORE  
MASTER OF TECHNOLOGY

Computer Science major with CGPA of **3.8/4**

**BETHANY JUNIOR COLLEGE**, BANGALORE  
INDIAN SCHOOL CERTIFICATE (CLASS 12)

Physics, Chemistry, Mathematics & Computer Science with CGPA of **93.4%**

**ST FRANCIS SCHOOL**, BANGALORE  
INDIAN CERTIFICATE OF SECONDARY EDUCATION (CLASS 10)

General Proficiency awarded, with **91.3%**

**MASTERS THESIS** | **CAUSAL MODELLING IN EVENT STREAMS**, IIIT BANGALORE  
AUG 2015 – JUL 2017 (EXPECTED)

Working towards an online learning system to mine causal relationships among event types for an event stream, using Bayesian Network theory and Reinforcement Learning

## RESEARCH PROJECTS

### **PERSONALIZED HOTEL RECOMMENDATION SYSTEM, MARCH 2016 – MAY 2016**

Designed a Bayesian Network model to contextualize customer data from an online travel website to provide personalized hotel recommendations, using Graphlab, scikit learn & matplotlib in Python

### **IDENTIFICATION OF VALUED SHOPPERS, AUG 2015 – DEC 2015**

Leveraged basket level, pre-offer shopping history of shoppers to predict which shoppers were most likely to purchase again, when presented with an offer, using Graphlab and matplotlib in Python

### **IDENTIFICATION OF SUCCESSFUL LEARNERS IN MOOCS, AUG 2015 – DEC 2015**

Designed a semi-supervised learning algorithm that predicts the likelihood of a MOOC learner successfully completing the course. Video clickstream data from Stanford's OpenEdX was used to characterize learner engagement with the course.

## ACADEMIC PROJECTS

### **WHERE IS MY BUS, JAN 2015 – MAY 2015**

Developed a crowd sourced, bus spotting Android app that is designed to help BMTC commuters in Bangalore by communicating the location and crowded-ness of a bus, in real time.

### **GUMPU – REAL TIME VISUALISATION OF CROWDS, JAN 2016 – MAY 2016**

Developed a web application to visualize and analyze geographically located crowds, using geo-tagged tweets from Twitter, Alchemy sentiment analysis and entity recognition API, built on MEAN stack.

### **ADMISSION MANAGEMENT SYSTEM, JAN 2015 – MAY 2015**

Developed an admission management system in Java, with MySQL and JDBC.

### **IMPLEMENTATION OF VICTIM CACHE, AUG 2013 – DEC 2013**

Implemented Data and Instruction Victim Cache in SimpleScalar and studied its efficiency using SPEC 95 benchmarks

### **RRPLAYER – GUI FOR RRA, JAN 2013 – MARCH 2013**

Implemented a GUI based audio player for Readily Readable Audio (RRA) format in Python

## COMPUTER SKILLS

### **PROGRAMMING LANGUAGES**

Python, Java, C, C++, SQL, Javascript

### **SOFTWARE PACKAGES**

MATLAB, Android Studio, GraphLab, Pandas, Scikit Learn, Matplotlib, SimpleScalar, Latex, Gephi, Arduino

### **OPERATING SYSTEMS**

Linux and Windows

## EXTRA CURRICULAR

### **FOUNDING MEMBER & COORDINATOR INFORMATION SOCIETY CLUB, IIIT-B**

Coordinator of Information Society Club, a forum for students to discuss technology and society

### **INTERACTION LEAD GOOGLE STUDENT CLUB, IIIT BANGALORE**

Interaction, Publicity and Media Lead for Google Student Club.

### **JUNIOR GRADE VOCAL EXAMINATION KARNATAKA SECONDARY EDUCATION BOARD**

Obtained First Class with Distinction in the Junior Grade Vocal Examination for Carnatic Music