

# Satyam Kumar

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## EDUCATION

### INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, KALYANI

#### B.TECH IN COMPUTER SCIENCE AND ENGINEERING

Expected June, 2021 | Kalyani, IN  
Cum. GPA: 9.4

### THE PENTECOSTAL ASSEMBLY SCHOOL

Bokaro Steel City, IN

#### STD. 12TH

Passed : 2017 | 94.6

#### STD. 10TH

Passed : 2015 | CGPA : 10

## LINKS

GitHub:// [satyamtg](#)

GitLab:// [satyamtg](#)

LinkedIn:// [satyamtg](#)

Twitter:// [@satyamtg](#)

Facebook:// [satyamtg](#)

XDA://[@satyamtg](#)

## COURSEWORK

### UNDERGRADUATE

Programming in C/Python  
Computer Organization and Architecture

Data Structures and Algorithms

Operating Systems

Probability, Statistics & Discrete

Mathematics

Machine Learning

### HIGH SCHOOL

Object Oriented Programming in C++

Computer Networking

Database Management

## SKILLS

### PROGRAMMING

Over 5000 lines:

C++ • JavaScript • Python • CSS

Shell • HTML

Over 1000 lines:

C • Arduino • PHP • Assembly • Java •

Android

Familiar:

iOS •  $\LaTeX$  • MySQL

## CERTIFICATIONS

### NPTEL | CLOUD COMPUTING

September 2018 | IIT Kharagpur

- Landed up in "ELITE" out of 1882 passing the course

### NPTEL | INTRODUCTION TO INTERNET OF THINGS

August 2018 | IIT Kharagpur

- Landed up in "ELITE" out of 3776 passing the course

### NPTEL | PROGRAMMING, DATA STRUCTURES AND ALGORITHMS USING C

August 2018 | IIT Ropar

- Landed up in "ELITE" out of 2083 passing the course

## AWARDS

2019 National "2nd Runner-up" in CodeUtsava 3.0 Hackathon at NIT Raipur

2018 National "Most Innovative Hardware Hack" in HACKABIT 2018

2017 National 2nd rank in SOF National Cyber Olympiad (NCO) in India

2016 Zonal 2nd rank in finals of SOF National Cyber Olympiad in Jharkhand

## ORGANIZATIONS

- Member of the Technical Club of IIIT, Kalyani
- Leader of IIIT, Kalyani Web Team
- Founding member of IIIT, Kalyani Free and Open Source Club

## INTERESTS

- Machine Learning
- IoT
- AI
- Blockchain
- Game Design
- Deep Learning and Neural Networks

## HACKATHONS

**CODEUTSAVA 3.0** Feb 2019, NIT Raipur | [Link](#)

Part of team WeUseTabs which became the 2nd Runner-up

**HACKABIT 2018** Oct 2018, BIT Mesra, Ranchi | [Link](#)

Won the "Most Innovative Hardware Hack" award.

**IHACK** Jan 2019, IIT Bombay | [Link](#)

Successfully made it to the top 15 teams in the Blockchain track.

**HACK IN THE NORTH 4.0** Mar 2019, IIIT Allahabad | [Link](#)

Successfully made it to the top 20 teams in the grand finale.

## PROJECTS

### HERETOHEAR | A DEPRESSION DETECTION AND SUPPORT SYSTEM USING AI AND MACHINE LEARNING

Jan 2019 | [GitHub Project URL](#)

This project aims at detecting depression based on the utterances a person makes in his day to day life, can confirm it by doing a sentiment analysis of social media, and warn the near and dear ones. It also suggests the person as a psychiatrist and is packed as an Alexa Skill. It won the 2nd Runner-up at NIT Raipur's CodeUtsava 3.0

## **EYEA | AI POWERED WEARABLE FOR THE VISUALLY IMPAIRED**

Mar 2019 | [GitHub Project URL](#)

A project that converts everything that a normal person can see into an interactive audio experience. This AI powered wearable helps a visually impaired person by giving a brief summary of the environment around him/her and can also identify faces, objects etc.

## **FLAGNEWS | A PREDICTION MARKET AND AI BASED APPROACH TO CRUB FAKE NEWS SPREAD**

Mar 2019 | [GitHub Project URL](#)

A fake news spread control system using AI (Deep Learning) and a Prediction Market based approach. This project combines the power of AI with the wisdom of the crowd to curb fake news.

## **HACKTENDERS | BLOCKCHAIN BASED E-TENDERING SYSTEM**

Jan 2019 | [GitHub Project URL](#)

A blockchain based super secure e-tendering system with automatic bidding and payment. This project was made at iHack Hackathon which was organized by IIT Bombay and made it to the top 15 blockchain projects.

## **SMART SHOPPING SYSTEM | AN AUTONOMOUS SHOPPING SYSTEM WITH THEFT DETECTION**

Oct 2018 | [GitHub Project URL](#)

A shopping system similar to Amazon Go at a very cheap price. This project won "Most Innovative Hardware Hack" award at HACKABIT 2018, a national level hackathon organized by BIT Mesra, Ranchi.

## **AUTOHOME | CONTROLLING HOME CIRCUITRY THROUGH ARDUINO AND A WEB INTERFACE**

Nov 2016 | [GitHub Project URL](#)

A simple and cheap way to automate home electronics using Arduino and a clean interface.

## **TINYGO | A URL SHORTENER SERVICE IN GOLANG**

Ongoing

It would be a simple and fast URL shortener service in Golang with very low collision probability.

## **FOSC WEBSITE | WEBSITE OF IIIT, KALYANI FREE AND OPEN SOURCE CLUB**

May 2018 | [GitHub Project URL](#)

**OTHER PROJECTS** • Element-Tiles - A rEFInd bootloader theme with support for Vector graphics and TTF/OTF fonts. • OMNIBot (A simple line follower robot) • PaperVault (A website to serve question papers which uses only client side scripting) • The current website of IIIT Kalyani