

# Swapnil Sourabh

Sophomore, Computer Engineering, IIIT Bhubaneswar

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## Experience

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### ○ **Algoskills | an interactive platform for computer algorithms**

*Owner and Founder*

*Feb 2018–ongoing*

- [Algoskills.com](https://www.algoskills.com) is an interactive website for knowledge sharing viz. coded by me
- A platform where one can learn and help others to learn the skills of algorithms
- Writing detailed articles on algorithms gave me an opportunity to dive into the depth of algorithms

**Tech stack:** HTML, CSS, Bootstrap, js, PHP, MySQL, Apache web-server, SFTP etc.

## Internship

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### ○ **Indian Institute of Technology, Patna**

**2½ mths**

*Summer Research Internship on IoT and Machine Learning*

*May 2017–July 2017*

- Mentor: Dr. Jimson Mathew, HOD(CSE), IIT Patna
- Used Raspberry Pi with several sensors and installed them in house to obtain the datasets for activity recognition of residents
- Contributed in a smart app which tracked the activities of a smartphone user by applying ML algorithms on real-time data

**Tech stack:** Raspberry Pi, Machine Learning, MySQL, Python, Cordova, Ionic, Putty, TightVNC, Sensors( PIR, IR, Light Sensor, TI SensorTag) etc.

## Education

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### Academic Qualifications.....

#### ○ **International Institute of Information Technology, Bhubaneswar**

**2016–ongoing**

*B.Tech, Computer Engineering , 2nd year*

*CGPA: 7.99(upto 3rd sem)*

#### ○ **St. Michael's High School, Patna, Bihar**

**2015**

*CBSE, 12th Boards Examination*

*Percentage: 94.2%*

#### ○ **Don Bosco Academy, Patna, Bihar**

**2013**

*ICSE, 10th Boards Examination*

*Percentage: 94.4%*

## Research Paper Presentation

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- **Indian Technology Congress (ITC) Conference, Bangalore**  
○ *Paper presentation and abstract publication* *August 11th, 2017*
  - Co-author of the research paper entitled [Activity Recognition Using Smartphone Sensors With Auto-Annotation In IoT](#) along with team including faculties of IIT Patna
  - Went to ITC Conference, Bangalore in order to present our team's idea

## Technical and Personal skills

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- **Technical Skills:**
  - Languages:** C, C++, PYTHON, JAVA
  - Sub Topics:** MACHINE LEARNING, IoT
  - Web Devlp:** PHP, HTML, CSS, BOOTSTRAP, APACHE WEBSERVER
  - Tools:** GIT, L<sup>A</sup>T<sub>E</sub>X, JUPYTER, PYCHARM, PUTTY, NETBEANS, CODEBLOCKS
  - Platforms:** LINUX, WINDOWS, RASPBAN
  - Framework:** NUMPY, PANDAS
  - Database:** MYSQL
- **General Skills:** GOOD PRESENTATION SKILLS, PROFICIENT IN WRITING AND SPEAKING ENGLISH

## Projects

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- **Personal Financial Assistant:** *'A Java desktop app which acts as a personal financial assistant!'*
  - It provides an interface for users to save their financial data securely and manage the assets.
  - All java frames forms including login, signup, update etc. 1'2are attached together inorder to provide high security login system [\[Github\]](#)
  - Tech Stack:** Java, NetBeans
- **Smart Home:** *'Prediction of resident's activities for smart living!'*
  - Concept derived from assisted living.
  - Data are trained using Machine Learning algorithms and prediction are made depending on the real time data (Ongoing)
  - Tech Stack:** Python, jupyter, pandas, numpy etc

## Interests

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|----------------------|------------------------|
| - Machine Learning   | - Computer Algorithms  |
| - Internet of Things | - Web Development      |
| - Data Structures    | - Computer Programming |

## Honors and Activities

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- Merit Certificate in CBSE 12th Boards for outstanding academic performance and being among top 0.1% candidates all over India in ENGLISH CORE
- Secured 99/100 in Maths in 10th Board Examination(ICSE) and 98/100 in Computers(IP) in 12th Board Examination
- Attended workshop on Augmented Reality by Roboflux Technologies, Data Science and Machine Learning by Stockroom.io and Illuminate pre-eureka by IIT Bombay
- Runner up at Inter School Quiz competition at Prarambhika, Patna and second runner up at Advantage Media Academy, Patna