# Rishav Chourasia

Computer Science and Engineering Student

Room 162, Kapili Hostel, IIT Guwahati, Assam-781039, India
+91 7896890326 • r.chourasia@iitg.ernet.in

## Qualifications

| Degree | Institute | Score | Year |
|---|---|---|---|
| B-Tech Computer Science And Engineering | Indian Institute of Technology, Guwahati | CPI-9.66/10 | 2014-2018 |
| All India Senior School Certificate | DPS Bokaro, B,S City, Jharkhand-826001 | 91.6% | 2012-2014 |
| Indian Secondary School Certificate | De Nobili C.M.R.I, Dhanbad, Jharkhand | 96.4% | Upto 2012 |

## Areas Of Interest

- Deep Learning on Image Processing
- Augmented Reality
- Automation based on ML

## Projects

Academic Projects:

1. **File Folder Downloader for college intranet**          Sept-2015 to Dec 2015
   System Software Lab project for 2$^{nd}$ Semester was to create a File Folder Downloader for the college having multiple features like drag and drop, sharing with others via link/name file compression and protection of user identity. Django Framework was used. Group of 3 headed by me.

2. **Image Classification via Deep Convoluted Neural Network Libraries to detect Pelvic Cancer (Prof. Amit Sethi)**          Jan-2016 to Present
   Use of Deep Learning library named caffe to classify images of tumours as malignant or non-malignant. Judging the effective model for this classification to produce efficient results.

Robotics Club:

1. **Autonomous Room Cleaner**          Jan-2015 to May-2015
   Robotics Club project to make a cheap and affordable autonomous room cleaner using trivial on-board sensors. The bot used ATmega ICs, 2 ultrasonic sensors and a few bump sensors. The Bot used PID controller to follow walls and detect edges.

2. **Multiple Sensor Tester**          Feb-2015 to April-2015
   A project to detect weather a given sensor is functioning or not. The purpose of this project was to help robotics club in assessing sensor functionality before applying them in use.

3. **RC Speed Boat**          Nov-2014 to Dec-2014
   The project was to make a remote controlled multiple purpose speed boat for an All India Technical Competition, Techfest held in IIT Bombay.

4. 4-Wheeled bot to demonstrate PID controller                    March-2015
   The Bot moved with constant velocity irrespective of the angle of inclination of the track.

Personal Projects
1. Android Application for Geo-based Augmented Reality        Dec-2015 to Present
   A login based application to show the user the last seen positions of the other users in an augmented reality view (in form of a point with respective name viewed on the camera screen). The aim is to extend it for eye wearables.

## Scholastic Achievements

- **Topped** my Department of Chemical Engineering in my first year of college (Cumulative Performance Index- 9.83).
- Changed my branch from Chemical to Computer Science and Engineering (requires a condition of being in **top 8 of the institute**).
- Got AIR 3890 in JEE(advanced)2014 and AIR 4126 in JEE(mains)2014 (top 0.3 % among **1.4 million** candidates)
-  Scored 96.2% in class 10 ICSE board examination. Was the school **topper** out of 300 students and achieved **district rank 5**.
- **Topped** my class 11 examination. Got a scholar badge from my school.

## Technical Skills

- **Languages:** C, C++, Python, Java, HTML; (basic): Bash, C#
- **Software:** Android Studio, Eclipse, Django Web Development Framework, Arduino IDE; (basic): ROS, Visual Studio.
- **Operating System:** Linux, Windows.

## Courses Undertaken

- Data Structures and Data Structures Lab.
- Discrete Mathematics.
- Digital Design and System Software Lab.
- Introduction to Computing and Computing Laboratory.
- Ordinary and Partial Differential Equations, Real and Complex analysis, Linear Algebra.
- Engineering Mechanics, Engineering Drawing and Mechanical Workshop.
- Introduction to Electrical Sciences and Basic Electronics Laboratory.
- Introduction to Chemical Sciences and Chemical Lab.
- Physics-I, Physics-II and Physics Lab.

## Positions Of Responsibility

**Group leader of my projects, Robotics Club**
- In charge of giving instructions to the students in the projects I did under Robotics Club.

**Class Representative in class 11 and 12**                    2012-2014
- Responsible for the class actions and monitored the class in teacher's absence.

## Extra-Curricular Activities

- Member of the NSS web development team.
- Made the Student Affairs' intranet website along with a fellow batch mate.
- An active blogger.
- Represented hostel in inter hostel technical competition.

## References

References are available upon request.