



# Harsh Sinha

Roll Number: 150108014

B.Tech -Electronics and Electrical Engg.

Indian Institute of Technology Guwahati

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## Education

Year	Degree / Certificate	Institute / Board	CGPA/Percentage
2015 - 2019	B.Tech	Indian Institute of Technology, Guwahati	7.8 (Current)
2015	Senior secondary	CBSE board	92.6%
2013	Secondary	CBSE board	10.0

## Experience

- **SDE intern at Samsung R&D Institute, Noida.**  
Worked in the AI group, the project was based on Natural Language Processing. *May 2018-July 2018*
- **Research Intern at Indian Statistical Institute**  
EML Multilabel Classification (Deep Learning and ML) *May 2017-July 2017*  
Professor: Dr Ashish Ghosh.

## Project

- **Asymmetric Homomorphic encryption (BTP).** *Ongoing*  
*Dr S. Krishnaswami, Associate Professor, Dept EEE*
- **Intern Projects**  
**Samsung:** Emotion Detection From Text (created Deep Learning Model and Deployed into an android app) *May-July 2018*  
**Indian Statistical Institute:** Implemented a paper of Extreme Learning Machine and Multilabel KNN and made ELM work on multilabel data. *May-July 2017*
- **ChatBot**  
Python Script for Terminal news BOT which provides news from various news links and summary from via chats. *Mypolly Botahon*  
*github.com/harsh4723/chatbot*
- **Emotion Detection from speech**  
Classified speech input (.wav format) into emotions like happy, sad, neutral, anger and guilt. Tested the model in some self-made recordings. *EE320 course project*  
*Prof Prithwijit Guha*
- **TT Game**  
Modelled a simple TT game using Blender and Unity and deployed it into a smartphone. *Microsoft's CodeFundo*  
*(group project)*
- **Smart Cart**  
Made a working model of a Smart Shopping Cart which can be controlled by our mobile phones and the cart contains RFID Reader and Arduino which sends the items detail and total bill to our phones *EE 304 Lab Project*  
*Jan-April 2018*  
*Prof Chitrlekha Mahanta*
- **FT Mini Corsair**  
Made an RC plane from scratch which can move in all direction *Inter Hostel Technical event*

## Technical skills

- **Programming languages :** C,C++, Python, Java \*
- **Web technologies :** HTML, CSS, PHP\*
- **Miscellaneous :** Matlab, Data Science,ML & DL
- **Operating system :** Windows

*\* Elementary proficiency*

## Positions of Responsibility

- Mess Convenor Dihing Hostel *July 2017- April 2018*
- City representative of Technothon in Ranchi: Managed the Technothon examination and brought 600 student's participation from various schools *May-July 2016*
- Event Organizer of Parliamentary Debate at Alcheringa (Cultural Fest)

## Achievements

- **Joint Entrance Examination 2015:** Secured all India rank 1902 (top 0.01 percentile)
  - **Techniche 2016:** Obtained 1st prize in cantilever design
  - **Inter Hostel technical event:** Secured 2nd in RC plane making module (Team event)
  - **AISSCE 12th:** Certified for scoring full marks in Chemistry.
  - **SA course:** 1st in Table Tennis competition intra IIT (team of 5)
  - **Publicis Sapient Hackathon:** Got selected for the technology Conference of Publicis Sapient (fully funded) in Bangalore (*25-26 August 2018*)
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## Key courses taken

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| • CS 101 Introduction to computing and lab | • EE657 Pattern Recognition and ML           |
| • MA 101 Linear Algebra                    | • EE350 Control Systems                      |
| • EE221 Probability and Random Processes   | • EE351 Advanced Control System              |
| • Intro to Finance (EDX)                   | • Winter JAVA course in Aptech Computer Edu. |
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## Extracurriculars

- **Industrial Conclave:** Participated in a workshop conducted by Techniche.
- **Japanese Language Course:** Elementary Proficiency in Japanese *Jan-May 2017*
- **Valeo Innovation Challenge:** Certified for successfully submitting an innovative idea.
- **Inter Hostel Sports:** Played Khokho and BasketBall (3rd position) from the hostel.
- **Inter Hostel Cultural:** Part of Sketching Module.
- **Inter Hostel Technical:** Part of aeromodelling Module ( 2nd Position).
- **Hackathons:** Successful submissions in Microsoft's CodeFundo and MyPolly Botahon