Harsh Sinha

Roll Number: 150108014
B.Tech -Electronics and Electrical Engg.
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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 keyboard team, the project was based on Natural Language   *May 2018-July 2018*
  Processing.Successfully demonstrated the working model of the final product which suggest Gifs
  and emojis based on the text written. Further this will be deployed into Samsung's Keyboard

- **Research Intern at Indian Statistical Institute**
  EML Multilabel Classification (Deep Learning and ML).Implemented various Deep Learning   *May 2017-July 2017*
  and Machine learning Model and converted the models to work for multilabel datasets
  Professor: Dr Ashish Ghosh.

Project

- **Asymmetric Homomorphic encryption (BTP).**   *Ongoing*
  Project is an instantiation of Polycrcker cryptography and Learning with Errors.
  Working on a new depcrypting algorithm using extensive Linear Algebra concepts
  Dr S. Krishnaswami, Assistant Professor, Dept EEE

- **Intern Projects**
  Samsung: Emotion Detection From Text (created Deep Learning Model and Deployed into a   *May-July 2018*
  android app) .Core NLP concept were used and the model outperforms various previous models
  Indian Statistical Institute: Implemented a paper of Extreme Learning   *May-July 2017*
  Machine and Multilabel KNN and made converted ELM algorithm to work on multilabel data.

- **ChatBot**
  Python Script for Terminal news BOT which provides news from various news   *Mypolly Botahon*
  links and summary from via chats.   *github.com/harsh4723/chatbot*
  (https://github.com/harsh4723/chatbot)

- **Emotion Detection from speech**
  Classified speech input (.wav format) into emotions like happy, sad, neutral, anger and guilt.   *EE320 course project*
  Tested the model in some self-made recordings.   *Prof Prithwijit Guha*

- **Pattern Reconntion and Machine Learning**
  Optical recognition of handwritten dataset using self coded and tuned naïve Bayes Classifier   *EE657 .*
  Decision tree implementation and visualization in Jupyter Notebook on Wiscon Breast cancer data   *(Course project)*

- **Smart Cart**
  Made a working model of a Smart Shopping Cart which can be controlled   *EE 304 Lab Project*
  by our mobile phones and the cart contains RFID Reader and Arduino which   *Jan-April 2018*
  sends the items detail and total bill to our phones   *Prof Chitralekha 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, TensorFlow,MySQL*

- **Operating system :** Windows
  - *Elementary proficiency*

Positions of Responsibility

- Mess Convenor Dihing Hostel (Manages the hostel mess and kitchen for one year)   *July 2017- April 2018*
- City representative of Technothlon in Ranchi: Managed the Technothlon
  examination and brought 600 student's participation from various schools   *May-July 2016*
- Event Organizer of Parliamentary Debate at Alcheringa (Cultural Fest)
- Branch Hostel Representative   *July 2015-April 2016*

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)
- **Inter Hostel BasketBall event:** Overall 3rd position (Bronze Medal)

Key courses taken

- CS 101 Introduction to computing and lab
- MA 101 Linear Algebra
- EE221 Probability and Random Processes
- Intro to Finance (EDX)
- Maths for finance(UCI opencourse)
- EE657 Pattern Recognition and ML
- EE350 Control Systems
- EE351 Advanced Control System
- Winter JAVA course in Aptech Computer Edu.

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
- **Pariksha.com:** Current Rank under 1000 among 100,000 (Quantative aptitude, LRDI and Verbal)
- **Quant-Quests-** Enthusiastically participated in various finance data Science Challenges