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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

- · Machine Learning Intern at Samsung R&D Institute, Noida.
 - Got used to the various technologies like NLP, android, and RNN for the project assigned.
 May 2018-July 2018
 - Created a Deep Learning model which outperforms various previous models.
 - Delivered the final product as an app which recommends emojis and GIFs to a user based on text written which
 will be integrated to Samsung Keyboard and will decrease the task of searching for emojis every time we chat.

· Research Intern at Indian Statistical Institute

• Research task to convert single label learning model to multi-label models

May 2017-July 2017

- Implemented Multi-label KNN from scratch in python.
- Finally converted Extreme Learning Machine to a new model to work for multi-label Data Prof Ashish Ghosh

Projects

· Asymmetric Homomorphic encryption (Btech Term Project).

Ongoing

Working on a Project which is an instantiation of Polycracker cryptography and Learning with Errors. Creating a new encrypting-depcrypting algorithm using Linear Algebra concepts

Dr S. Krishnaswami, Assistant Professor, Dept EEE

· ChatBot for news article

Demonstrated a **terminal bot** made in python which interacts with the user and gives user *Mypolly Botahon* news links and summary of various categories of news via chats *github.com/harsh4723/chatbot* (https://github.com/harsh4723/chatbot)

· Emotion Detection from speech

Machine Learning model to Classify speech input into emotions like happy, sad, neutral, anger and guilt. The model also performed good on self-made recordings after removing noise 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 by our mobile phones, the cart contains RFID Reader and Arduino which sends items details details to our phone and then sum the total bill.

EE 304 Lab Project

Jan-April 2018

Prof Chitralekha Mahanta

FT Mini Corsair

Made an RC plane from scratch which can move in all direction and won 2nd prize in *Inter Hostel Technical event* the competition which judges design and flying capabilities of the plane.

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 (Managed 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