

Roll Number: 170103029 B.Tech -Mechanical Engineering Minor in Electronics and Communication Engineering Indian Institute of Technology Guwahati

hurshs0609@gmail.com +91-8136069748 github.com/hursh29 linkedin.com/in/hursh29

Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Guwahati	8.17 (Current)	2017 - Present
Senior secondary	Jamia Millia Islamia board	85.6%	2016
Secondary	Central Board of Secondary Education	9.00	2014

Experience

· Summer Intern at Samsung Research Institute, Noida

May 2020 - Jun 2020

- Developed a Deep Learning Model for **Detection of Distracting Objects** from images by training on a Large Scale Dataset.
- Conceptualized and built a Firebase web app for training data generation and Successfully integrated image inpainting model to edit and correct defects in the image.

Projects

Fault diagnosis of Centrifugal Pumps using Deep Learning

Ongoing

Dr Rajiv Tiwari, Professor, Dept. of Mechanical Engineering, IIT Guwahati

- Employing **Deep Learning** techniques for detecting and classifying the different kinds of faults occurring in centrifugal pumps.
- The proposed algorithm may be employed for condition-based monitoring in industrial equipments reducing human engagement in real-time fault detection and decision making.

Codeforces Crawler

Nov. 2019 - Dec. 2019

- Developed a **Django** powered web app to analyze and visualize user's performance on Codeforces.
- git.io/JUuqS

git.io/JUuqH

• Improved website performance by minimizing redundant **HTTP requests** to Codeforces API which was achieved by pushing web scraped data onto the database using **beautiful soup**.

Sudoku Solver

Jul. 2020 - Aug. 2020

- Trained Digit Recognizer with Keras and Tensorflow using MNIST Dataset by implementing a **CNN** to identify the digits present in the sudoku puzzle.
- Extracted sudoku puzzle from the image using a collection of Image Processing techniques from OpenCV library and finally implemented the **backtracking algorithm** for solving the sudoku.

CruchSpot

Jul. 2019 - Sep. 2019

- Built a **NodeJS Blog Reading** web app that implements **RESTful** routing using *git.io/JUEGh* Express framework where Users can add, update and delete their blogs after signing up.
- Used PassportJS as the authentication middleware and mongoose for MongoDB object modelling.

Technical skills

• **Programming languages:** C++, Python, Javascript

• Web technologies: Django, NodeJS, Flask, HTML

• Database management : SQL

• Miscellaneous: Git, Firebase*, Tensorflow*

Operating system: Windows, Linux*

* Elementary proficiency

Relevant Courses

- Data Structures and Algorithms'
- Deep learning and Neural Networks'
- Operating Systems'
- Introduction to computing(Theory and Lab)
- Machine Learning'
- · Databases'
- Advanced Calculus
- Ordinary & Partial Differential Equations

' MOOCs

Achievements

- **Competitive Programming:** Achieved highest Rating of **1675(Expert)** on Codeforces (Handle: masaow) and **1816** on Leetcode(Handle: hurshs0609).
- Google Hash Code(2020): Secured Global Rank of 1327 amongst 10724 participating teams.
- **Joint Entrance Examination 2017(Advanced):** Secured All India Rank in the top **3%** among 0.2 million candidates appearing for the test.

Extracurriculars

- Cleared Google Code Jam Qualification Round 2019 and 2020.
- Secured 2nd Position in Kho-Kho in **Spardha**, the Inter-Hostel Sports Competition, IIT Guwahati.
- Participated in **Footloose**, the Inter-Hostel Dance Competition, IIT Guwahati.