





# Mulugu Vishwanath Sharma

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## EDUCATION

**Indian Institute of Technology Hyderabad, India**  
Bachelors of Technology in Mathematics and Computing

Nov 2020 - Jul 2022  
GPA: 8.30/10.0

## PROJECTS

### Bubble Blast

Personal

Feb 2022 - Feb 2022  
[git.io/Bubble-Blast-Game](https://git.io/Bubble-Blast-Game)

- This game is done using SFML in CPP.
- This game has a square grid of bubbles of different colors and we have to match 3 or more bubbles of the same color in a row or column to blast them.
- This game has functionalities like Calculating scores, limiting the number of moves to 15, swapping the adjacent bubbles, and blasting 3 or more bubbles in a row or a column and replacing them with those with the bubbles above.

### Verification of CLT

IIT Hyderabad

Mar 2022 - Apr 2022  
[git.io/Verifying-CLT](https://git.io/Verifying-CLT)

- CLT stands for Central Limit Theorem.
- We have created some random data sets of predefined sizes of different distributions and checked whether their mean graph is following Normal distribution or not by the Shapiro Wilk test.

### Sudden Temperature Rise Detector

Bolt IoT and ML

Jun 2022 - Jun 2022  
[git.io/Temperature-sudden-change-detector](https://git.io/Temperature-sudden-change-detector)

- This Device is done using a Wifi module, 3 Female to Male wires, and an LM35 sensor that senses the temperature all given by Bolt company during the course.
- This device detects a sudden increase in temperature by creating a Z-score threshold above the last temperature reading.
- And if an anomaly is detected then it will send an alert mail to your given email ID.

## ACHIEVEMENTS

<b>AMTI</b>	Selected for second round of Mathematics contest conducted by AMTI (Association of Mathematics Teachers of India)	2016
<b>RMO</b>	Selected for RMO (Regional Mathematics Olympiad)	2018
<b>KVPY Interview</b>	Selected for KVPY (Kishore Vaigyanik Protsahan Yojana) interview Round	2018
<b>TS-Eamcet</b>	Qualified in TS-Eamcet with a State rank of 115	2020
<b>JEE-Mains</b>	Qualified in JEE-Mains with an AIR(All India Rank) of 622 in General category	2020
<b>JEE-Advanced</b>	Qualified in JEE-Advanced with an AIR(All India Rank) of 848 in General Category	2020
<b>Code Jam</b>	Qualified in Qualifier round of Code Jam	2022

## TECHNICAL SKILLS

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

**Miscellaneous:** Git, Latex, Competitive Programming, SFML in CPP, IoT (Internet of thing) and Z-score analysis, Concepts and Implementation of OOP)

**Web Technologies:** HTML, JavaScript

**Future Interests:** Machine Learning, Deep Learning, Programming in Java

## RELEVANT COURSEWORK

**Computer Science:** Python (Core + Advanced) From Naresh IT (Outside Campus), Data Structures and algorithms and data structures and algorithms lab, Theory of Computation, Algorithms

**Artificial Intelligence:** Artificial Intelligence, Convex Optimisation

**Mathematics:** Linear Algebra, Number Theory, Probability Theory, Combinatorics, Group Theory, Applied Statistics, Calculus-I and II, Ordinary Differential Equations.

**Others:** Iot and ML course provided by Bolt, Spoken Japanese Course

### Ongoing / Upcoming:

**Computer Science:** Operating Systems-1, Data Base Management Systems - 1, Compilers-1

**Artificial Intelligence:** Fundamentals of Machine Learning

**Mathematics:** Algebra-Groups and Rings, Numerical Analysis, Analysis of Functions of single variables

## EXTRA CURRICULAR ACTIVITIES

Playing in-door games like Chess and Carrom.

Active Volunteer in NSS.

Playing Badminton Occasionally.