



# M Anurag Yadav

Roll No.:230102056

B.Tech - Electronics and Communication Engineering

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Github | Website

## EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	7.69 (Current)	2023-Present
Senior Secondary	Telangana State Board of Intermediate Education	98.1%	2023
Secondary	Board of Secondary Education, Telangana	10	2021

## PROJECTS

- **ZCoder** May - June 2024  
*Coding Club, IIT Guwahati.* Github
  - Engineered a full-stack collaborative coding platform using the **MERN stack** and Socket.io, enabling seamless, real-time code sharing through **secure, scalable session-based rooms with unique IDs** for live multi-user collaboration.
  - Integrated **secure user authentication**, personalized profiles, problem tagging, and submission tracking.
  - Utilized MongoDB for managing user data, code snippets, session states, and a **dynamic contest calendar**.
  - **Tech Stack:** React, Vite, CSS Modules(Frontend); Express.js, Node.js(Backend); MongoDB(DataBase); Socket.io.
- **Potato-Disease-Predictor** May - June 2024  
*Personal Project.* Github
  - Developed a **deep learning web app** to detect and classify potato leaf diseases using a **custom CNN trained** on the PlantVillage dataset, enabling accurate and efficient identification of diseases like Early and Late Blight.
  - Integrated the model with a **Flask backend** and deployed a responsive interface for real-time image upload and prediction; enhanced accuracy through **data augmentation, NumPy preprocessing** and fine-tuning.
  - **Tech Stack:** Python, NumPy, TensorFlow, Keras, Flask, HTML, CSS, JavaScript.
- **Student-Record-Management-System** Jan - March 2024  
*Group Project* Github
  - Designed and implemented a robust **C++ student record management system** with a user-friendly command-line interface, enabling secure **CRUD operations** and reliable, persistent data storage using CSV files.
  - Engineered **admin/student authentication** with an interactive, menu-driven UI; incorporated **file I/O**, dynamic table rendering, and enhanced usability through **Windows APIs** for color, loading animation, and session management.
  - **Tech Stack:** C++ (OOP), File I/O, Windows APIs, Console UI, Algorithm Design.
- **Unity-Games** May - July 2023  
*Personal Project.* Github-2D | Github-3D
  - Designed and developed two original games in **Unity** using **C#**: Silent-Fury, a 2D ninja-themed action game with structured level progression, and Block-Collider, a 3D arcade-style game emphasizing timing and precision.
  - Silent-Fury: A 2D action game featuring 3 levels of increasing difficulty, where players navigate traps and enemies to discover a hidden treasure using **stealth and ranged combat**. Block-Collider: A 3D arcade game that challenges players to avoid obstacles across 5 progressively difficult levels, emphasizing spatial awareness and precise timing.
  - Implemented **level design**, enemies, **collision detection**, and **game mechanics** to enhance player experience.
  - **Tech Stack:** Unity, C#, 2D & 3D Game Design, Level Design, Animation, AI, Collision Detection.

## TECHNICAL SKILLS

**Programming:** C/C++, C#, JavaScript, Python

**Data Analysis:** NumPy, Pandas, Matplotlib

**Operating Systems:** Windows, Linux\*

**Web Technologies:** HTML, CSS, Node.js, Express.js, React.js, Flask

**Database:** MySQL, MongoDB

**Deep Learning:** TensorFlow, Keras

**Miscellaneous:** GitHub, Vite, Unity, Verilog\*

\* Elementary proficiency

## KEY COURSES TAKEN

- **Computer Science:** Introduction to Computing, Computing Laboratory
- **Electronics and Communication:** Digital Circuits, Signals and Systems, Control Systems
- **Mathematics:** Complex analysis, Differential Calculus, Probability and Random Processes, Linear Algebra

## ACHIEVEMENTS

- **Joint Entrance Examination ADVANCED:**, Secured All India Rank 4195 among 1.8 lakh JEE Main qualifiers. 2023
- **Joint Entrance Exam Main:**, Secured All India Rank 4625 among 11 lakh students. 2023
- **TS EAMCET:**, Secured Rank 435 among 1.95 lakh students. 2023

## EXTRA CURRICULARS ACTIVITIES

- **Event-Organizer:** Organized workshops as an organizer for Techniche, the annual tech fest at IIT Guwahati.
- **Manthan-IITG:** Participated in dance for my hostel at Manthan, an annual inter-hostel cultural competition.