

# ANISHA MAAN

Bachelor of Technology  
Computer Science and Engineering  
Indian Institute of Information Technology, Guwahati

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LeetCode



## EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech., CSE	Indian Institute of Information Technology, Guwahati	7.43(till 6th sem)	2022-2026
Class XII	Cambridge Kids Garden Public School	94.8%	2019-2021
Class X	Ramprasad Bohara Public School, Jhunjhunu	95.6%	2019

## EXPERIENCE

- Research Project – STT-RAM Cache Optimization**  
*Undergraduate Researcher, IIIT Guwahati* Jan 2025 – May 2025
  - Designed and implemented a hybrid write bypassing mechanism for STT-RAM Last-Level Caches using ChampSim, achieving a 25% reduction in total writes and improved cache endurance.
  - Conducted performance evaluation with SPEC CPU 2006 benchmarks, reducing write variation ( $\sigma$  from 3.13  $\rightarrow$  2.34) while maintaining system reliability with minimal IPC overhead.

## PROJECTS

- YourNews – AI News Aggregator** *Jul 2025*  
*Tools: React, FastAPI, LangChain, Google Gemini, SentenceTransformers, NewsAPI* 
  - Built a full-stack AI platform for automated news retrieval, clustering, summarization, and translation across sources.
  - Used SentenceTransformer embeddings with cosine similarity ( $\geq 0.8$ ) for semantic clustering and redundancy reduction.
  - Integrated LangChain with Google Gemini API for context-aware summarization and multilingual translation, deployed via a React–FastAPI architecture for scalability.
- Girls’ Hostel Management System | MySQL, JavaScript, HTML, CSS** *Jan 2023*
  - Developed a full-stack web application to automate hostel registration and administration, reducing manual work by 80% and managing 100+ student records.
  - Designed and normalized the MySQL database schema; implemented secure CRUD operations, input validation, and login authentication.
- Laptop Price Predictor – ML-based Regression Model** *Jun 2025*  
*Tools: Python, scikit-learn, XGBoost, Pandas, Pickle* 
  - Built a stacked regression model (Random Forest, Gradient Boosting, XGBoost) with Ridge as meta-learner to predict prices using 1300+ laptop records and 15+ features.
  - Achieved an  $R^2$  score of 0.89 and MAE of Rs.3200; deployed trained model via pickle for efficient, real-time predictions on new configurations.

## SKILLS

- Programming Languages:** Python, C, C++, Java
- Web Development:** HTML, CSS, JavaScript, React.js, MySQL, Express.js, MongoDB
- Other :** AWS(S3, EC2), Git, GitHub, Docker, Artificial Intelligence, Machine Learning
- Related Coursework :** DBMS, DSA, Networks, OOPs, Operating System

## CERTIFICATIONS

- Full-Stack Web Development Specialization - Udemy - *June 2023*
- Coursera - Supervised Machine Learning: Regression and Classification - *Feb 2023*

## ACHIEVEMENTS

- Cleared the initial phase of **Flipkart Grid**, showcasing advanced problem-solving capabilities and coding proficiency; ranked within the top 30% of competitors while navigating a series of challenging technical tasks and puzzles.
- Scored amongst the top 5% of students who participated in the **TATA Imagination Challenge**.
- Solved over **600+ coding problems** across LeetCode, GeeksforGeeks, and CodeChef.
- Yuvaan Core Team Member for Decoration:** Organized the 2024 Edition of the Cultural Fest, IIITG.