



Saundarya Keshari

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B.Tech - Electronics and Communication Engineering

Minor in Computer Science and Engineering

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	8.65 (Current)	2022-Present
B.Tech. Minor	Indian Institute of Technology, Guwahati	9.00 (Current)	2023-Present
Senior Secondary	ISC Board	99.25%	2021
Secondary	ICSE Board	92.8%	2019

PROJECTS

- **Airline Passenger Recovery Optimization** Nov. 2023 - Dec. 2023
Gold Medal, Inter IIT Tech Meet 12.0, IIT Madras | Judges Choice Award, Techevince 10.0 t.ly/airline
 - Solved the famous **Passenger Recovery Problem** by implementing a classical solution with **gurobipy** and a quantum approach utilizing a **Constrained Quadratic Model (CQM)**, effectively reallocating passengers affected by flight disruptions.
 - Employed a range of methods including **Flight-graph creation**, **DFS** integrated with **Dynamic Programming** for efficient pre-processing, and applied multi-threading in conjunction with **Flow Network Algorithms** for effective post-processing.
 - Developed a **Streamlit-based GUI** to display results and allow airlines to modify business rules for passenger reallocation.
- **LLM Powered Career Counsellor and Interviewer Bot** May 2024 - Jun. 2024
Google Cloud Vertex AI Agent Builder Hackathon Live Website | t.ly/sforge
 - Utilized **Google Vertex AI Agent Builder** and **OpenAPI** to create personalized agents with **Cloud functions**, designing tailored skill development roadmaps and automated course recommendations based on career goals and expertise.
 - Designed a **mock interview** app using **RAG** and integrated **Codeforces API** with **BeautifulSoup** for coding assessment.
 - Added support for document uploads for CV reviews, and deployed the platform on **Google Cloud Run** using **Docker**.
- **Dark Web Scraper** Mar. 2024 - May 2024
Coding Club IITG, featured in Techevince 10.0 t.ly/dws
 - Created a **python-based** scraper to securely extract data from **dark web forums** via the **Tor network** using **BeautifulSoup**.
 - Implemented strategies to successfully evade bot detection mechanisms, including **multithreading** and **randomized login**.
 - Constructed a CLI that allows for data querying by usernames, keywords etc. from 2,000+ threads to facilitate analysis.
- **DBMS with C** May 2024 - Ongoing
Personal Project t.ly/cdbms
 - Developed a database management system in **C language**, aiming to replicate the functionality of full-fledged DBMS.
 - Leveraged **B+ trees** for efficient data structure management, supporting operations such as **insertion** and **selection**.

ACHIEVEMENTS

- **Inter IIT Tech Meet 12.0:** Won the **Gold Medal** among 100+ students from 20 IITs in the **Quantum Computing Challenge**.
- **Branch Upgrade:** Earned a merit-based branch upgrade to ECE from CL by ranking in the **top 10 percent**.
- **Codeforces:** Attained a maximum rating of **1611 (Expert)** on Codeforces with 400+ problems solved. (*handle: jazzsterq*)
 - Secured **India Rank 175** and **Global Rank 540** among 16,700+ participants in Codeforces Round 950.
- **CodeChef:** Attained a maximum rating of **1959 (4 Stars)** on the coding platform CodeChef. (*handle: jazzsterq*)
 - Secured **Global Rank 168** in Starters 139 and **Global Rank 63** in Starters 112 among 18,900+ participants.
- **AtCoder:** Attained a maximum rating of **1068 (5 Kyu)** on the coding platform AtCoder. (*handle: jazzsterq*)
 - Secured **India Rank 59** and **Global Rank 1147** among 10,700+ participants in AtCoder Beginner Contest 359.
- **Meta Hacker Cup:** Advanced through round 0 and 1 and achieved a rank of 3519 in round 2 of the Meta Hacker Cup.
- **Reply Challenges 2024:** Ranked **Global 59** among 700+ teams in reply Challenge 2024 programming contest.
- **Kimo.ai Tech Quiz:** Secured **Rank 3** among the students of IIT Guwahati in KIMO's-Edge '23 Tech Quiz Competition.
- **Csaw.io:** Earned **India Rank 11** and **Global Rank 84** amongst 10,000+ participants in CSAW'23 - **Capture the Flag** event.
- **Inter-IIT Bootcamp:** Achieved **3rd position** in the **Healthcare-Software** PS hackathon organized in IIT Guwahati.
- **Joint Entrance Exam Main 2022:** Placed in the top 1.1 percentile among 0.90 million candidates appearing for the test.
- **Joint Entrance Exam Advanced 2022:** Secured All India Rank 8907 among 0.15 million candidates appearing for the test.

TECHNICAL SKILLS

- **Programming:** C, C++, Python*, Java*
- **Operating System:** macOS, Windows, Linux*
- **Development:** HTML, CSS, Streamlit
- **Miscellaneous:** L^AT_EX, Markdown, Git, Github
- **Python Libraries:** Streamlit, Beautiful Soup, Gurobipy*
- ** Elementary proficiency*

KEY COURSES TAKEN

- **Computer Science:** Data Structures & Algorithms, Introduction to Computing & Lab*, Automata Theory, Digital Circuits
- **Mathematics:** Probability Theory and Random Processes * AS(Outstanding) Grade

POSITIONS OF RESPONSIBILITY AND EXTRACURRICULARS

- **Core Team, Coding Club IITG:** Fostered a coding culture in college, leading various workshops with 200+ participants.
- **JAM Head, Debating Society IITG:** Organized Inter-Hostel JAM tournament & participated in **Inter IIT Cultural Meet 6.0**.
- **Manager, Udgam IITG:** Coordinated **national hackathons** & fostered an entrepreneurial mindset among 5,000+ college peers.
- **Table Tennis:** Represented Mirzapur district in **UP State Level Championship** & achieved a **Gold Medal** in TT League 7.0.