



## EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2024	B.TECH	IIT Kharagpur	9.10 / 10
2019	C.B.S.E	Haryana Vidya Mandir	91.2%
2017	I.C.S.E	Sri RNS Memorial High School	90.4%

## PROJECTS

**Facial Recognition based Attendance and Security System | Term Project** **May - Jun 2021***Do It Yourself (DIY) Course Project under Prof. Vikranth Racherla.*

- Developed a working model of an **Attendance Tracking System** based on **Facial Recognition** using **OpenCV**.
- Deployed the model with **Motion sensors**, **Fingerprint Scanner**, and **Solenoid Lock** via an **Arduino Board**.
- Integrated **voice command** using Python Library **Pytsx3** to coordinate the entire working of the model.
- Created complete documentation, product design, PowerPoint and Video presentation of the product.

**Business Inventory Management and Optimization Project | Term project** **Oct - Nov 2021***Operations Research Course project under Prof. JK Jha.*

- Analyzed the business and designed **Mathematical formulation** based on given **objectives** and **constraints**.
- The formulation is intended to specify the optimal purchase, production, scheduling and sales of Inventory.
- Coded the mathematical model in a software called **Lingo** and obtained the **optimized result**.

## COMPETITION/CONFERENCE

- Secured Global Rank of **1197** out of 10000+ participants in **Google Kickstart Round D, 2022** (*Profile: gourav\_sv*).
- Peak rating of **1896, 4 Stars** on **Codechef**, a competitive programming platform (*Profile: gourav\_sv*).
- Peak rating of **1486, Specialist** on **Codeforces**, a competitive programming platform (*Profile: gourav\_sv*).
- Secured Global rank of **2031** out of 7000+ teams in **Google HashCode, 2022** (*Team: LongTimeNoAC*).
- Secured Institute rank of **44** out of 300+ participants in Geeks for Geeks Campus Coding Contest, 2022.
- Achieved a **Top 50** rank in **MIMASA, 2021** a **National Level Science and Mathematics** Quiz organized by IISER Pune.

## AWARDS AND ACHIEVEMENTS

- Secured **99.06 Percentile** in **JEE Mains 2020** out of 1.05 million candidates.
- Top **5% in JEE Advanced 2020** out of 0.2 million candidates and accepted admission at IIT Kharagpur.
- Secured **GMR 282** in **WBEE 2020** out of 0.1 million candidates and was offered admission at Jadavpur University.
- Participated in TSG **Website Hackathon** and was awarded best feature award for News Bulletin.
- Awarded with **MCM** (Merit cum Means **Scholarship**) in Sophomore year based on Academic Performance.

## COURSEWORK INFORMATION

- |   |                               |                       |
|---|-------------------------------|-----------------------|
| • Programming and Data Structures(T/L).     | • Probability and Statistics. | • Transform Calculus. |
| • Algorithm Laboratory.                     | • Advanced Calculus.          | • Deep Learning.      |
| • Switching Circuit and Logic Design (T/L). | • Numerical &Complex Analysis | • Linear Algebra.     |

## SKILLS AND EXPERTISE

- Programming Languages:** C | C++ | Python.
- Libraries/Tools:** Matplotlib, Pandas, Numpy, OpenCV.
- Software:** MATLAB, Solidworks, CPLEX, Microsoft Office, VS Code, Adobe Premiere Pro, Adobe Photoshop.

## POSITIONS OF RESPONSIBILITY

**Executive Member | Gopali Youth Welfare Society** **Dec'20 - Apr'22**

- Part of a **14 member team** that raised **75 lacs in 12 months** for executing various initiatives of the NGO.
- Mentored and guided a team of **26 freshmen** about reaching out to Alumni network and **fundraising activities**.
- Developed professional **CSR Proposals** and contacted corporate companies for the same.
- Developed the frontend of the new **website** for the NGO using tools like HTML/CSS/JS/Bootstrap.

**Programming and Data Structures Mentor | Student Welfare Group** **Dec'21 - Jul'22**

- Taught Programming, Data Structures and Algorithms to 100+ freshmen and mentored them in their course.
- Organized 10 doubt clearing sessions addressing their course related doubts and assignments.

## EXTRA CURRICULAR ACTIVITIES

- Secured **3rd Position** in **BizTech**, a Business and Technology based Quiz organized by **Spring Fest**, IIT Kharagpur.
- Served as a **Volunteer** for **NSS Unit 5** and developed various Content, and took part in rallies for Social Awareness.
- Served as a **mentor to five 1st year students** assisting them in Academics under the UG Mentorship Program.
- Organized a **Fundraiser** event called CoviRelief and raised **3 Lacs in 2 weeks** for COVID related welfare activities.

# Gourav Kumar Shaw

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## EDUCATION

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2024	B.Tech at <b>IIT Kharagpur</b>	(CGPA: 9.1/10)
2019	Class 12th CBSE	(91.4 %)
2017	Class 10th ICSE	(90.1 %)

## PROJECTS

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**Facial Recognition based Attendance and Security System — Project** Apr 2021 - May 2021

- Developed a model of an **Attendance Tracking System** using Facial Recognition with **OpenCV**.
- Deployed the model with Motion sensors, Fingerprint Scanner, and Solenoid Lock via an Arduino Board.
- Integrated voice command using Python Library **Pyttsx3** to coordinate the working of the model.
- Created complete documentation, product design, PowerPoint and Video presentation of the product.

**Malaria Detection Using CNN — Project** Mar 2022 - Apr 2022

- Designed a **CNN model** to predict Malaria with an accuracy of 92%.
- Dataset of more than 500 cell images were augmented and used to train the **TensorFlow** CNN model.
- For CNN model a sequence of **convolutional & max-pooling** layers was used followed by dense layers.
- Tools and libraries used in the project are Pandas, Numpy, Tensorflow, Keras, Matplotlib, and Flask.

**Movie Recommendation System Based on Machine Learning — Project** Mar 2022 - Apr 2022

- Designed Movie **Recommendation System** using both **Content & Collaborative-Based** Filtering
- Successfully done data pre-processing & feature selection of 4500+ Movies data-set to predict movies.
- Tools and libraries that are used in the project: Pandas, Numpy, Scikit Learn, SciPy and Matplotlib.

## INTERNSHIPS

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**Member of Technical Staff — Geeks For Geeks — Internship** Sept 2022 - present

- Part of **Content Development** team, developing and testing **high quality DSA** problems.
- **Mentoring College students & working professionals** prepare for Tech based Job Interviews.
- Taking **Live streaming** sessions over **YouTube** delivering content related to DSA.

## COMPETITION/CONFERENCE

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## COURSEWORK INFORMATION

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<b>Computer Science</b>	Algorithms — Switching Circuit & Logic Design — Artificial Intelligence.
<b>Mathematics</b>	Probability — Statistics — Transform Calculus — Operations Research.
<b>Others</b>	Deep Learning — Supply Chain — Simulation — Quality Design & Controls.

## SKILLS

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<b>Languages and Libraries</b>	C, C++, Python, Matplotlib, Pandas, Numpy, OpenCV.
<b>Web Development</b>	HTML, CSS, JavaScript, ReactJS, NodeJS.

## LEADERSHIP

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**Sponsorship Head — Gopali Youth Welfare Society — NGO** Jan 2021 - present

- Spearheading a team of **20+ members** with responsibility of raising **1 Cr+ INR** for social initiatives.
- **Mentored** and guided a team of 26 freshmen about reaching out to Alumni network of IITs and IIMs.
- Developed **professional CSR Proposals** and contacted corporate companies for the same.
- Developed the frontend of the new website for the NGO using tools like HTML/CSS/JS/Bootstrap.

## EXTRA CURRICULAR ACTIVITIES

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- Secured **3rd Position** in **BizTech**, a Business and Technology based Quiz organized by Spring Fest.
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