



# Shivam Kumar Singh

Roll No.: 210150022

B.Tech - Data Science and Artificial Intelligence

Minor in Computer Science and Engineering

Indian Institute Of Technology, Guwahati

+91-6203011287

shivam.ks@iitg.ac.in

kumarsinghshivam.200219@gmail.com

Github | Website

linkedin.com/in/shivam-kumar-singh-846a12223

## EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	8.90 (Current)	2021-Present
B.Tech. Minor	Indian Institute of Technology, Guwahati	9.5 (Current)	2021-Present
Senior Secondary	CBSE Board	91.6%	2020
Secondary	CBSE Board	93.8%	2018

## EXPERIENCE

- **MFSDSAI** April 2023 - Current  
*UG representatives in Web Development, under Prof. Neeraj Kumar Sharma* IIT Guwahati
  - Contributed few features, improved Codebase & assist in maintaining our School Website by working together with Web Team.

## PROJECTS

- **MERN-Chat-App (Group Project)** June 2023 - July 2023  
*Coding Club, IIT Guwahati* Github | Website
  - Developed personal/group chat with real time messaging using **Socket.io** & store it in **MongoDB** for efficient storage.
  - Build fully responsive and interactive UI using **React** and **Tailwind** & used **Express.js** to manage servers and routes.
- **Departmental Research Portal (Group Project)** March 2023 - May 2023  
*DBMS Course Project, under Prof. Debanga Raj Neog* Github | Website
  - Used **PHP** in backend, **MySQL** as a database & Build a responsive UI using **Bootstrap**.
  - User can search for any Research Paper, Research Domain, Professor or Year, will get filtered tabular result containing Paper Title, Professor, Publisher, Conference, etc. & plot result - No. of Research Paper per Professor and Domain.
  - An analysis page contains plots using **CanvasJS** about the count of Research Paper & Citations per Professor & Domain.
- **Departmental Information Portal** Jan 2023 - March 2023  
*Technologies Used - HTML, CSS, Bootstrap, PHP, MySQL* Github | Website
  - Provides Information about Department, Professors, Students, Courses and Book availability containing raw data.
  - User authentication, User can add/search faculty in Department, search all students enrolled in a particular course, Department offering a particular course and search for book availability & get information about who issued it.
- **Weather Website (Group Project)** Dec 2022  
*Technologies Used - HTML, CSS, JavaScript, OpenWeather API* Github | Website
  - Take Location access to provide weather information Or User can search weather information of any particular city.
  - Weather Information contains parameters like Temperature, Weather Description, Humidity, Sunrise/Sunset time, Wind Speed, Visibility, Feels like & Background Image will change according to Location through API.

## TECHNICAL SKILLS

- **Programming:** C/C++, Python, JavaScript, PHP, R
- **Web Development:** HTML, CSS, React, Node.js
- **Database Management:** MySQL, MongoDB
- **Data Science:** Pandas, Matplotlib, Numpy, Scipy
- **Miscellaneous:** Next.js, Express.js, Bootstrap, Tailwind, Mongoose, Socket.io
- **Operating System:** Windows, MacOS\*, Linux\* \* Elementary proficiency

## KEY COURSES TAKEN

- **Computer Science:** Introduction to C, Automata Theory, Data Structure and Algorithm(Theory + Lab), Database Management System(Theory + Lab)
- **Data Science and Artificial Intelligence:** Introduction to Data Science, Statistical Foundation for Data Science, Introduction to Artificial Intelligence, Python Programming Laboratory
- **Mathematics:** Linear Algebra, Basic Calculus, Discrete Maths, Probability & Random Processes

## ACHIEVEMENTS

- **Branch Change,** Promoted to DSAI department for **academic excellence** in 1st year of UG 2022
- **Global Rank 108,** in Codechef contest with Highest Rating - **1692** 2022
- **Jee Advanced Rank,** 2971 out of 2.5 Lakhs candidates 2021
- **Jee Mains Rank,** 4591 out of 12.5 Lakhs candidates 2021