# Dipesh Kumar

Roll No.220101038
B.Tech. - Computer Science and Engineering
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## EDUCATION

| Degree/Certificate | Institute/Board | CGPA/Percentage | Year |
|---|---|---|---|
| B.Tech. | Indian Institute of Technology Guwahati | 7.95 (Current) | 2022-Present |
| Senior Secondary | CBSE Board | 94.4% | 2021 |
| Secondary | CBSE Board | 93.6% | 2019 |

## PROJECTS

- **PeerPulse - Project Collaboration Platform** *Feb. 2024*
  *Gold medal in Inter Hostel Technical Competition-Kriti'24* bit.ly/3xHoXKz
  ○ A dynamic platform facilitating **project collaboration and networking** among like-minded individuals.
  ○ Features include **real-time updates**, **interactive discussion forums**, **group chat functionality** and **comment facilities**.
  ○ Enhanced UI/UX with **mobile responsiveness**, **filtering searches** based on **TechStacks** and **project rating**.
  ○ Utilised **React.js**, **Node.js**, **MongoDB** and **OpenAI API** for enhanced functionality and performance.
- **National Service Scheme(NSS) Website** *Apr. 2024*
  *Group Project, NSS Cell, IIT Guwahati* bit.ly/3xiebdz
  ○ Developed a website for **NSS IITG** for information sharing, volunteer coordination and resource management.
  ○ Key functionalities include **secure login** for NSS heads to **create posts** and **manage team member details**.
  ○ Leveraged **React.js** for frontend, **Node.js** for backend, **MongoDB** and **Cloudinary** for database and media storage.
- **Shortest Path Finder** *Sept. 2023*
  *Personal Project* bit.ly/4cgIIrk
  ○ Created a **web platform** for IIT Guwahati to display shortest path between any two points of the campus.
  ○ Applied **Dijkstra's algorithm** on a campus map represented as a weighted undirected graph to optimize routes, resulting in an average **reduction of 95 meters** and up to a **12% decrease** in travel duration.
  ○ Utilized **Flask** for backend server and modeled a **Python-based API** to send data to frontend upon API calls.
- **Divine Visits - Temple Ticket Booking System** *May 2024*
  *Group Project, CSEA IIT Guwahati* bit.ly/3VZVNj0
  ○ Designed **a streamlined web platform** for booking temple tickets for devotees seeking to schedule their temple visits.
  ○ Implemented a **secure login system** for devotees to **book tickets** and **QR code for scanning tickets** at temple gate.
  ○ Worked with **React.js**, **Node.js**, and **MongoDB** for management of tickets and QR codes.

## ACHIEVEMENTS

- **Codeforces**: Max-Rating: **1599** | **Specialist** | **Solved 650+** problems | **90+** Contests | Handle: **Mysteriux**
  ○ Codeforces Round 262 : Secured Global **Rank 722** among 13900+ participants.
  ○ Codeforces Round 950 : Secured Global **Rank 886** among 12000+ participants.
- **CodeChef**: Max-Rating: **1810** | **4 Star** | Handle: **mysteriux**
  ○ Codechef Starters 117 : Secured Global **Rank 108** (in Div-4) among 14500+ participants.
  ○ Codechef Starters 126 : Secured Global **Rank 210** (in Div-2) among 20000+ participants.
- **Leetcode**: Secured Global **Rank 811** among 37500+ participants in Weekly Contest 403 | Handle: **Mysteriux**
- **Kriti Inter-Hostel Software Development Challenge 2024** : Secured **Rank 1** among all IIT Guwahati hostels.
- **International Coding League'24**: BITS Pilani: Secured a team rank of **68** out of **500** teams | Ranked **6th** in batch
- **Meta Hacker Cup 2024**: Secured Global Rank **1602** out of 22494 participants in **Round 2**.
- **Prep-Bit Contest 2025**: Coding Club IIT Guwahati: Secured **Institute Rank 5** among 250+ participants.
- **Joint Entrance Examination 2022 (Mains)**: Secured All India **Rank 16,389** among 1 million candidates.
- **Joint Entrance Examination 2022 (Advanced)**: Secured All India **Rank 7312** among 150,000 candidates.

## TECHNICAL SKILLS

- **Programming**: C++, C, Javascript*, Python*
- **Web Technologies**: HTML, CSS, React.js, Node.js, Express.js*
- **Database Management Systems**: MySQL, MongoDB*
- **Miscellaneous**: Git, Github

*\* Elementary proficiency*

## KEY COURSES TAKEN

- **Computer Science**: Data Structures and Algorithms (Theory & Lab), Database Management Systems (Theory & Lab), Computer Networks, Operating Systems, Design and Analysis of Algorithms, Computer Architecture and Organization
- **Mathematics**: Probability Theory and Random Processes, Elementary Number Theory and Algebra, Linear Algebra

## POSITIONS OF RESPONSIBILITY

- **Core Team Member**, **Events, Alcheringa' 2025** *Jun. 2024 - Apr. 2025*
  ○ Managed many events and joined the core team to assist in planning, organizing, and executing key events for the fest.
- **Core Team Member**, **Cadence** *Jun. 2024 - Apr. 2025*
  ○ Coordinated major events, resulting in a **30% increase** in club membership and active engagement.