



# Deepak Singh

Roll No.: 210102026

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	8.66 (Current)	2021-Present
Senior Secondary	CBSE Board	97.0%	2021
Secondary	CBSE Board	98.0%	2019

## EXPERIENCE

- Oracle India** May 2024 - July 2024  
*Software Development Intern* Hyderabad
  - Focused on developing a **feedback management system** within the **Human Capital Management (HCM)** module to enable employees to understand their work progress and allow managers to review team performance effectively.
  - Developed the application using their proprietary **Visual Builder Studio (VBCS)** and **REST APIs** for efficient feedback creation and retrieval, and integrated **Cohere LLM** to summarize large volumes of feedback, enhancing review efficiency.
  - Integrated the application into the **HCM platform**, extending its capabilities to include feedback mechanisms.

## PROJECTS

- Placement Portal** July 2023- October 2023  
*Students' Web Committee, IIT Guwahati* Project Doc | Website
  - Led the development of the official placement portal for IIT Guwahati, serving over **2,000** students and **400+** companies
  - Coordinated with design, web, and product teams, and utilized **Node.js** and **React** for the portal's development
  - Created a suite of secure **APIs** with **middlewares** to prevent unauthorized access and ensure robust security protocols
  - Implemented real-time job application tracking for over **1,000** applicants, efficiently displaying shortlists and waitlists
- Job Recommendation System** July 2024  
*Personal Project* Github
  - Developed an **ML-based job recommender system** that utilizes **TF-IDF** with **n-grams** and **nearest neighbor** algorithms to match user's resume with relevant job postings for precise and contextual recommendations.
  - Integrated **NLP techniques** and **spaCy** for automating skill extraction from resume and accurate recommendations.
  - Built the web application using **React** and **Flask** enabling smooth front-end and back-end integration
- Portfolio Builder** April 2023- October 2023  
*Students' Web Committee, IIT Guwahati* Github | Website
  - Developed a **React.js**-based portfolio builder that dynamically modifies pre-defined **HTML templates** and supports **HTML code export** based on user input, enabling the creation of customized portfolio websites
  - Implemented **live preview** with **iframe**, enabling real-time updates and customization of **themes** and **color schemes**
- Other Notable Projects**
  - **Student's Affairs Portal, IIT Guwahati** : Developed a centralized platform with **Strapi**, **PostgreSQL**, and **Next.js** used by over **7,000** students to access scholarship details, forms, events, and college achievements
  - **Real Time Chat** : Developed a real time web app using **Node.js** and **Socket.io** for instant communication, with **MongoDB** for data storage and **JWT** authentication, featuring a responsive UI built with **React** and **Tailwind CSS**

## TECHNICAL SKILLS

- Programming:** C++, C, Python, Java, Javascript
- Database Management:** MySQL, MongoDB, PostgreSQL
- Web Development:** HTML, CSS, React, Node.js, Next.js
- Miscellaneous:** Express.js, Socket.io, Git, MATLAB

## ACHIEVEMENTS

- Codechef:** Highest rating **2011(5 Star Coder)**, best rank of **19** in Starters 83 and **44** in Starters 94
- LeetCode:** Highest rating **1891(Knight)**, best rank of **503** in Weekly 801 and **830** in Biweekly 137
- Codeforces:** Highest rating **1434 (Specialist)**, best rank of **1454** in Codeforces Round 968 Div 2
- Joint Entrance Examination 2021(Advanced):** Secured All India Rank **1563** among 2 Lakh candidates
- Joint Entrance Examination 2021(Main):** Secured All India Rank **1887** among 10 Lakh candidates
- Qualified Both IOQA and IOQC 2021:** Selected for **IOQA 2021** and **IOQC 2021** among 17,000+ candidates nationwide

## KEY COURSES TAKEN

- Computer Science:** Operating Systems, Computer Networks, Data Structures and Algorithms (Theory + Lab), Software Engineering, Digital Logic and Computer Architecture, Theoretical Foundations in Computer Science
- Others:** Probability & Random Processes, Pattern Recognition and Machine Learning, Blockchain Science and Technology, Recommendation System Design Using Deep Learning

## POSITIONS OF RESPONSIBILITY

- Frontend Lead at Students Web Committee(SWC), IIT Guwahati** Mar 2024 - Present
  - Leading a team of 40+ developers in the development of key portals, including Placement, Intern, and IITG Gymkhana Election Portal, while overseeing the maintenance of critical admin projects like HAB Websites and SA Portal
  - Mentored a highly successful React JS workshop, attracting 500 participants from various colleges across country