

Nishchay Singla

Indian Institute Of Technology, Guwahati

B.Tech - Mechanical Engineering

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	Indian Institute of Technology, Guwahati	8.00 (Current)	2022-Present
Senior Secondary	CBSE Board	94.2%	2022
Secondary	CBSE Board	96.67%	2020

PROJECTS

- Healthcare Assistant Using Large Language Model** Jan 2025
Group Project GitHub
 - Built a **medical chatbot** by fine-tuning the **Llama2-7b** Large Language Model with a curated dataset from the Gale Encyclopedia of Alternative Medicine, supporting **200-token** responses.
 - Applied **QLoRA**, **4-bit quantization**, and **Hugging Face** pipelines for parameter-efficient fine-tuning, achieving **50% less RAM usage** and **400% faster training**.
 - Integrated **real-time** inference and prompt engineering to boost user engagement, ensuring **reliable health-related query resolution** in a production setting.
- CineSeek** Jan 2025
Self Project GitHub
 - Developed a **Movie Recommendation System** leveraging the **TMDB 5000 Movies dataset**, enabling personalized movie suggestions based on **content similarity** using **text processing techniques**.
 - Implemented a **Machine Learning Model** using **CountVectorizer** to analyze and extract key features such as **genres**, **keywords**, and **tags** for precise recommendation matching.
 - Optimized **Performance** by pre-processing a large dataset, handling missing data, and fine-tuning similarity metrics, resulting in an **accurate** and **scalable recommendation engine**.
- Competitive Helper Chrome Extension** June 2024
Group Project Github
 - Developed a robust Chrome extension to fetch daily **LeetCode** challenges, rating-based **CodeChef** problems, and topic-specific **Codeforces** questions using respective APIs.
 - Leveraged HTML, CSS, and JavaScript to create an intuitive user interface for efficient question retrieval and display, enhancing user experience and engagement, and implemented **LeetCode Daily Challenge notifications** with popup messages for increased user interaction.

TECHNICAL SKILLS

Programming Languages: Python, C++, JavaScript*

Machine Learning / Data Science: Numpy, Pandas, Matplotlib, Seaborn*, Scikit-learn, NLP

Visualization Tools: Streamlit, Tkinter*

Development Tools: HTML, Tailwind CSS, Javascript

Backend Tools: Node.js*, MongoDB

* Indicates elementary proficiency.

KEY COURSES TAKEN

- Computer Science:** Introduction to C programming, Computing Laboratory, Data Structure and Algorithms
- Mathematics:** Linear Algebra and Differential Equations, Complex Analysis, Real Analysis & Basic Calculus

ACHIEVEMENTS

- JEE Advanced**, Secured AIR **4594** among 1,50,000+ candidates 2022
- Codeforces**, Maximum Rating achieved : **1346** | Handle: [nishchaysingla123](#) Present
- CodeChef**, Starters 140 : Secured global rank **187** (in Div-4) among 27,000+ participants June, 2024
- JEE Mains**, Secured 98.3 percentile among 1 Million candidates 2022

POSITIONS OF RESPONSIBILITY

- Events Core Team**, Alcheringa , IIT Guwahati 2023 - Present
 - Lead a 3-tier team of Associate Executives, Executives and organised events for Alcheringa 2024, the largest Cultural Fest of North East India hosted by IIT Guwahati.
- Maintenance Secretary**, Siang Hostel , IIT Guwahati April, 2024 - Present
 - Currently appointed as the Maintenance Secretary of a Hostel of 400 boarders, ensuring smooth operations and proactive facilities management.