

# KALPAJYOTI SAIKIA

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<https://kalpajyotisaikia.github.io/Portfolio>

## SUMMARY

Dedicated and highly motivated Chemical Engineering graduate with a strong work ethic and a versatile skill set. Proficient in a range of technical skills and adept with various technology programs. Actively seeking a challenging career that leverages my abilities and promotes continuous learning and professional growth.

## EDUCATION

<b>Golaghat Engineering College, Golaghat-785621</b> , B.Tech in Chemical Engineering	2025
<b>Brilliant Academy, Lakhimpur-787001</b> , High School/+2	2019
<b>Sankardev Shishu/Vidya Niketan, Nowboicha, Lakhimpur-787023</b> , Matriculation/10th	2017

## TECHNICAL SKILLS

**Programming Languages:** C/C++, Python, Java.

**Web Development:** HTML, CSS, JavaScript.

**Technologies/Frameworks:** MS Office, GitHub, WordPress, Pandas, Django, NumPy, SciPy, CFD.

**Software:** Arduino, Ansys, MATLAB, Comsol, Jupyter, AutoCAD, Android Studio, Photoshop, Illustrator.

**Concepts:** Chemical Processes, Thermodynamics, Polymer and Material Science, Mechanical and Fluid-flow Operations, Plant and Equipment Design, Heat and Mass Transfer, Bio-chemical and Reaction Engineering, Data Structures and Algorithms (DSA), Molecular Docking, Data mining.

## STRENGTHS

Adaptability	Fast-learning	Flexibility	Problem-solving	Teamwork
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## EXPERIENCES

<b>Project Associate</b> , Industrial Energy Assessment Cell, IIT Guwahati, Assam-781039	Feb 2025 – Aug, 2025
<ul style="list-style-type: none"><li>Performed tasks related to energy audits and energy efficiency evaluations.</li><li>Developed and managed the ECM 2025 conference website (<a href="https://event.iitg.ac.in/ecm25/">https://event.iitg.ac.in/ecm25/</a>).</li></ul>	

## INTERNSHIPS

<b>Summer Intern</b> , Oil India Limited, Duliajan, Assam-786602	Jul 2023 – Aug 2023
<ul style="list-style-type: none"><li>Learned about Cementing in Drilling. Various Types of Drilling Fluids and Drilling mud.</li></ul>	
<b>Research Intern</b> , North Lakhimpur University, Lakhimpur, Assam-787001	Oct 2022 – Apr 2023
<ul style="list-style-type: none"><li>Obtained Biocompatible Quantum Dots for Bio-detection Cell Imaging and Biomedicine.</li></ul>	
<b>Research Intern</b> , BITS Pilani KK Birla – Goa Campus, Zuarinagar, Goa-403726	May 2022 – Sep 2022
<ul style="list-style-type: none"><li>Determined the Optimal Adsorption of the Ammonia Molecules on the Graphene Surfaces.</li></ul>	
<b>Research Intern</b> , Indian Institute of Technology Guwahati, Guwahati, Assam-781039	May 2022 – Aug 2022
<ul style="list-style-type: none"><li>Identified the Active Sites and Binding Pockets on a Protein, Protein Stability and Folding Kinetics.</li></ul>	
<b>Summer Intern</b> , Ministry of Housing and Urban Affairs, Government of India	Jul 2022 – Aug 2022
<ul style="list-style-type: none"><li>Rejuvenation and Reimagination Strategy for an Old Pond.</li></ul>	
<b>Participant</b> , Chemistry Division, Bhabha Atomic Research Centre, Mumbai-400085	Sep 2021 – Sep 2021
<ul style="list-style-type: none"><li>DAE Symposium on Current Trends in Theoretical Chemistry (CTTC-2020)</li></ul>	
<b>Trainee</b> , Petroleum Conservation Research Association, Government of India	Feb 2021 – Feb 2021
<ul style="list-style-type: none"><li>Institutional Training Program on Oil Conservation</li></ul>	

## PROJECTS

- Pyrolysis of Plastic to Produce Fuel.
- Production of Soap Using Coconut Oil.
- Data mining for Molecular Simulations.
- Numerical Modelling of Carbon Dioxide Absorption.
- Green Chemistry Mediated Synthesis of Semiconducting Quantum Dots.
- First Principle Study on Graphene Oxide and Reduced Graphene Oxide for Hydrogen Storage.

## ACHIEVEMENTS

- Student of The Year 2014 - LIC India.
- National Science Quiz Qualifier.
- State Science Exhibition Qualifier.
- Rank Holder in Chemistry Olympiad - 2018.
- State-Level Qualifier in Vedic Mathematics Quiz.