

KALPAJYOTI SAIKIA

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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

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

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

INTERNSHIPS

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

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.