

# DHIMAN BARUAH

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## OBJECTIVE

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I aim to deepen my understanding of nature by studying physics from first principles, focusing on developing genuine physical intuition. My goal is to master the way physicists think and reason about fundamental laws governing the universe.

## EDUCATION

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### Integrated M.Sc. (Physics)

August 2024 - Present

National Institute of Science Education and Research, Bhubaneswar.

CGPA up to 3rd semester: 8.73/10

### Intermediate Education

August 2022 - May 2024

Cotton University, Guwahati.

Assam Higher Secondary Education Council

Percentage: 85.6 (Science Stream)

### SSC, Class X

March 2021 - May 2022

Don Bosco High School, Mangaldai.

Board of Secondary Education, Assam

Percentage: 91.7

## SKILLS

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Intermediate proficiency in Python

Working knowledge of Linux and Shell Scripting

Experience with Numerical Methods

## INTERNSHIP / PROJECTS

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### Calibration and Neutron–Gamma Discrimination (EJ-301 Detector)

May 15, 2025 – July 30, 2025

Worked on the calibration of an EJ-301 organic liquid scintillation detector and pulse-shape discrimination to distinguish fast neutron and gamma interaction events from Am–Be source under the guidance of Prof. Bedangadas Mohanty at NISER.

### Self initiated projects

Developed Python-based codes: to solve laplace equation involving arbitrary boundary conditions, to simulate non-linear pendulum and to simulate heat diffusion equation.

*The codes of all the above projects are uploaded in my GitHub account: <https://github.com/DhimanBaruah>*

## ACHIEVEMENTS

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### Innovation in Science Pursuit for Inspired Research (INSPIRE)

Got selected for the scholarship program of Innovation in Science Pursuit for Inspired Research (INSPIRE) from the Department of Science and Technology (DST).

## EXTRACURRICULAR ACTIVITIES

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Completed vocal music training up to Visharad–I, Bhatkhande Sangit Vidyapith, Lucknow

2014 – 2018