

# Pritipriya Dasbehera

Bhubaneswar, India

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## Education

### National Institute of Science Education and Research

Bhubaneswar, India

Integrated Masters in Physical Science

October 2021 - Present

- Minor in Computer Sciences
- Current GPA: 9.39

#### Relevant Coursework:

Classical Physics, Mathematical methods, Quantum Mechanics, Statistical Physics, Special Relativity, Graph Theory and Algorithm Design, Electronics and Optics lab

### Kendriya Vidyalaya Balasore

Odisha, India

Middle and High School

August 2011 - May 2021

- CBSE board class 12th - 96.8 %
- CBSE board class 10th - 98 %

## Work Experience

### Inter-University Acceleration Centre

New Delhi, India

Summer internship | Accelerator Physics

June 2023 - July 2023

- Under the supervision of Dr. Rajesh Vikram Hariwal
- Investigations on Metamaterials for Beam Diagnostics Application

### National Institute of Science Education and Research

Bhubaneswar, India

Summer internship | Computational Astronomy

May 2022 - July 2022

- Under the supervision of Dr. Nishikanta Khandai
- Study and implement brute force and Nearest Grid Point algorithm to find the Nearest Neighbours under Periodic Boundary Conditions and compare their time complexities.

### Intershala course

Online | Bhubaneswar, India

Machine Learning Course

March 2022 - April 2022

- **Topics covered:** Linear and Logistic Regression, Decision Tree, Ensemble model and Clustering
- Certificate

## Projects

### Quantum Neural Network

Bhubaneswar

NISER

Aug 2023 - Oct 2023

- Building a Image classifier algorithm with classic Convolutional Neural Network and a linear quantum layer
- Implementation of forward and backward pass on a quantum layer

## Skills

**Programming** Python(Pandas, Tensorflow, PyTorch, NumPy, Scipy) Rust, C, C++

**Miscellaneous**  $\text{\LaTeX}$ , Linux CLI

**Soft Skills** Critical thinking, Adaptability, Teamwork, Openness to criticism

## Highlights

2023	<b>President</b> , Robotech Club NISER	India
2022	<b>Second position in Inquizitive Physics Quiz</b> , IGNITE	India
2022	<b>First position in Vigyan Vyakhya(Sci-Video) competition</b> , IGNITE	India
2022	<b>Cleared Prelims</b> , National Anveshika Experiment skill(NAEST)	India
2021	<b>Inspire Scholar</b> , Department of Science and Technology	India

## Interests

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- Robotics** Interested in bringing textbook physics and programming to life through robotics as a co-curricular activity
- Stargazing** Occasionally find myself strolling alone enjoying the night sky.
- Reading** Have always loved reading mostly detective and mystery light novels.
- Sci. Comm.** Regularly promote physics as a basic science to school students by showcasing interesting science experiments

## Languages

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- English** Professional proficiency
- Odia** Native proficiency
- Hindi** Conversational proficiency