

# Pritipriya Dasbehera

Bhubaneswar, India

✉ pritipriya.dasbehera@niser.ac.in | 📧 github.com/pritipriya-dasbehera | 🔗 linkedin.com/in/pritipriya-dasbehera-470212229

## 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-I, Mathematical methods-I&II, Electromagnetism-I&II, Quantum Mechanics-I&II, Special Relativity, Statistical Mechanics, Condensed Matter, Nuclear Physics, Graph Theory and Algorithm Design, Machine Learning
- **Relevant Lab Courses:**  
Basic and Advanced Electronics, Optics, Computational, Nuclear Physics, Solid State

### 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

Odisha, India

Experimental verification of the Einstein-de Haas effect

- A physical phenomenon in which a change in the magnetic moment of a free body causes the body to rotate following conservation of angular momentum
- **Technical Skills:** Advanced electronics
- **Soft Skills:** Teamwork, Logical Thinking.

### 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

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

## Languages

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<b>English</b>	Professional proficiency
<b>Odia</b>	Native proficiency
<b>Hindi</b>	Conversational proficiency