

# PRITAM ACHARYA

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## EDUCATION

<b>Indian Institute of Science Education and Research (IISER)</b> <i>BS-MS, Math GPA: 8.6/10.0, CGPA: 8.2/10.0</i>	Pune, Maharashtra Aug. 2020 – Dec. 2025
<b>D.A.V. Public School</b> <i>Intermediate, C.B.S.E. (95.2%) [Marksheet]</i>	Cuttack, Odisha Apr. 2019 – Mar. 2020
<b>D.A.V. Public School</b> <i>Matriculation, C.B.S.E. (96.6%) [Marksheet]</i>	Cuttack, Odisha Apr. 2017 – Mar. 2018

## EXPERIENCE

<b>Project on Multidimensional Random Walks [Report]</b> <i>Guide: Dr. Anup Biswas</i> <ul style="list-style-type: none"><li>Examined "Simple Random Walks", their first visits, first returns, and 'Gambler's Ruin' problem using geometrical and combinatorial techniques.</li><li>Examined multi dimensional random walks. Estimated asymptotically, the number of points a walk passes through using combinatorial and analytical techniques.</li><li>Estimated the rate of escape to infinity of a random walk in more than 3 dimensions. Involved usage of involved analysis techniques, combinatorics, and measure theory.</li></ul>	May 2022 – Jul. 2022 Pune, Maharashtra
<b>Reading Project on Modern Dynamics</b> <i>Guide: Dr. Rejish Nath</i> <ul style="list-style-type: none"><li>Covered part 1 of "Introduction to Modern Dynamics" by David D. Nolte.</li><li>Focused mainly on building the foundations of modern classical mechanics (Hamiltonian formalism, Lagrangian formalism).</li></ul>	Jun. 2021 – Jul. 2021 Pune, Maharashtra
<b>Student Mentor</b> <i>D.A.V. Public School</i> <ul style="list-style-type: none"><li>Mentored a select group of individuals in their senior year for science and math olympiads.</li><li>Responsibilities included conducting mock tests, grading them, and providing students with necessary inputs. Encouraged students to come up with unique and different solutions to the same problem.</li></ul>	Sept. 2020 – Feb. 2021 Cuttack, Odisha

## SKILLS

**Programming Languages:** Python, and SageMath.  
**Frameworks:** NumPy, Pandas, Tensorflow and matplotlib.  
**Miscellaneous:** Proficient in  $\text{\LaTeX}$ , git, MATLAB, MS Excel and gnuplot.  
**Front-End:** HTML, CSS, and JavaScript.

## SCHOLASTIC ACHIEVEMENTS

• Among the 30 individuals to be invited to attend the <b>Radio Astronomy Winter School</b> . Could not attend due to scheduling conflict.	Dec. 2021
• <b>Bronze Medalist</b> in <b>OPhO</b> (Online Physics Olympiad). World rank 10 in the open round, and world rank 17 in the invitational round. [Certificate]	Jul. 2020
• Scored <b>53/119</b> in <b>Indian National Chemistry Olympiad</b> . The median score was 32, qualifying marks for the next stage were 54.5. [Marksheet]	Feb. 2020
• Scored <b>35.5/80</b> in <b>Indian National Physics Olympiad</b> . The median score was 28.5. [Marksheet]	Feb. 2020
• Among the <b>Top 1% (National Level)</b> to qualify National Standard Examination in Chemistry ( <b>NSEC</b> ). Invited to appear in INChO. [Invitation]	Jan. 2020
• Among the <b>Top 1% (State Level)</b> to qualify National Standard Examination in Physics ( <b>NSEP</b> ). Invited to appear in INPhO. [Invitation]	Jan. 2020
• <b>Gold Medalist</b> in <b>Technothon</b> , an exam of logic organized by IIT-Guwahati students, awarded with an <b>All India Rank of 5</b> among 50,000 candidates. [Certificate]	Oct. 2019
• Awarded with the <b>Kishore Vaigyanik Protsahan Yojana</b> Fellowship by Dept. of Science and Technology, Government of India. [Certificate]	Feb. 2019

## KEY COURSES UNDERTAKEN

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**Physics:** Introductory Mechanics, Electrostatics, Introduction to Quantum Mechanics, Thermal and Statistical Physics, Classical Mechanics

**Mathematics:** Single Variable Calculus, Multi Variable Calculus, Linear Algebra, Introduction to Probability, Advanced Linear Algebra, Discrete Structures, Real Analysis 1, Group Theory, Graph Theory\*, Ordinary Differential Equations\*, Point Set Topology\*, Rings & Modules\*, Statistical Inference\*, Real Analysis 2\*

*(\* marked courses to be completed by Dec. 2022)*

## CO-SCHOLASTIC ACHIEVEMENTS

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- Co-founder and convener of FinStreet, the finance club of IISER Pune. 2021
- Semi-finalist in the **PCRA Saksham Quiz**. Represented the state of Odisha in the South Zonal Finals. 2018
- Runners-up in **Mettle Meet Quiz**. Awarded with a cash prize of ₹ 50,000. 2018