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EDUCATION	University of Houston , College of Natural Sciences and Mathematics • PhD in Theoretical Physics. Durham University , Ustinov College, Durham, UK • M.Sc. in Particles, Strings and Cosmology, Result: Merit – via 180 credits. Amity University Noida , India. • B.Sc. (Honours) Physics, CGPA: 8.05/10 (First Division) – via 176 credits. Sanskriti School , India. • Higher Secondary -Major: Science -Result: 94% (First Division)	2022–Present 2018–2019 2015–2018 2014–2015
ADDITIONAL COURSES	• Kavli Asian Winter School on Strings, Particles and Cosmology <i>International Center for Theoretical Sciences, TIFR</i> • Dualities in Topology and Algebra. <i>International Center for Theoretical Sciences, TIFR</i> • Non-Perturbative and Numerical Approaches to Quantum Gravity, String Theory and Holography. <i>International Center for Theoretical Sciences, TIFR</i>	10–23 January 2022 1–13 February 2021 18–22 January 2021
RESEARCH EXPERIENCE	• Spin-2 Spectra (Consistent Metric Fluctuations) in AdS_6/CFT_5. Advisor: Prof. Carlos Nunez, <i>University of Swansea, Wales, UK</i> • Computation of the Hilbert Series for the coulomb branch of $3d N = 4 U(1)$ gauge theory with n flavours and for the quiver $[1] - 1 - 1 - [1]$ (framed A_2). Advisor: Prof. Amihay Hanany, <i>Imperial College London, UK</i> • Masters Thesis <i>Durham University, UK</i> Title: An Introduction to AdS/CFT and the Holographic Entanglement Entropy. Supervisor: Prof. Simon F. Ross, Reader: Dr. Nabil Iqbal • Undergraduate Project 2 <i>Amity Institute of Applied Sciences, Amity University Noida, India</i> Title: Predictions of the General Theory of Relativity. Supervisor: Prof. S. Chandra • Summer Project <i>International Astronomical Union Symposium 340, Jaipur, India</i> Title: Long Term Data Sets for Understanding of Solar and Stellar Magnetic Cycles. • Visiting Research Student <i>Harish Chandra Research Institute, Center for String Interactions, Prayagraj</i> Title: Mathematics of Fundamental Physical Systems. Supervisor: Dr. Anirban Basu • International Asteroid Search Campaign <i>IASC and PAN-STARRS, Hawaii, USA</i> Advisor: Dr. Patrick Miller, Hardin-Simmons University, Texas, USA • Undergraduate Project 1 <i>Amity Institute of Applied Sciences, Amity University Noida, India</i> Title: The Fundamentals of String Theory.	June 2021–Jan 2022 June 2021–July 2021 2018–2019 2018 2018 2017 2017 2016

TECHNICAL SKILLS	<ul style="list-style-type: none"> • <i>Programming Languages:</i> C/C++, Python • <i>Technical Softwares:</i> Mathematica, MATLAB, L^AT_EX, Final Cut Pro X, Logic Pro X
PUBLIC TALKS	<ol style="list-style-type: none"> 1. Quantum Photonics Physics Forum September 2021 <i>Online: Social Media Platform</i> Title: Black Hole Information Problem & Recent Developments 2. Amity Alumni Lecture Series August 2021 <i>Amity Institute of Applied Sciences, Amity University Noida, India</i> Title: Open Problems in Theoretical Physics. 3. Christ University Physics Club 2020 <i>Christ University Bangalore, India</i> Title: On Quantum Entanglement and the Interpretation of Quantum Mechanics. 4. Beyond Portals Lecture Series 2018 <i>Beyond Portals HQ, New Delhi, India</i> Title: On Relativity and Gravitation: Applications to Modern Physics.
ACHIEVEMENTS	<ul style="list-style-type: none"> • Awarded Distinction for Masters Thesis. • Outstanding Project Award ‘The Fundamentals of String Theory’ at Amity University. • Successfully passed various National Science and Mathematics Olympiads. • Preliminary Asteroid Discovery 1, Phase 2 (P10BPsc). • 33 Preliminary Asteroid Discovery 2, IASC 2017. • The Global Education and Leadership Foundation – Completed 3 Years of Life Skills and Leadership. • Excellence in Web Technology. • Successfully passed the National Problem Solving Assessment organized by CBSE. • Won 2nd Prize at Amity University’s Battle of the Bands.
EXTRA-CURRICULAR ACTIVITIES	<ul style="list-style-type: none"> • Music Channel • Travel Vlogging and Lifestyle Channel • Sports and Fitness: Sports Captain of Amity University from 2016-2018. –Won Numerous Medals and Trophies in Cricket, Football, Kabaddi, Chess etc. • Head of Organising Committee of Amity University from 2016-2018. –Organised Various National and International Events in Amity University. • Frequently Participate in Political/ Policy Making Debates –Have won many prizes in debates about policy making and strategy in India.
HUMAN VALUES AND COMMUNITY SERVICE	<ul style="list-style-type: none"> • Volunteered during COVID-19 Pandemic (during the nationwide lockdown) and helped in distribution of food supplies, PPE kits and other necessary goods to migrant laborers and the underprivileged. • Volunteer at the Sanjay Gandhi Animal Health Care Center • Regular Volunteer and Educator at the Slums of New Delhi, India; to help the underprivileged lead a better life. • Awareness program Prahvah: Visited ‘Lapodia’, a primitive village in Rajasthan to study the lifestyle and culture of the rural residents of India.
SCIENCE COMMUNICATION	<ul style="list-style-type: none"> • Co-founder of ‘<i>Beyond Portals</i>’, an Organization to Promote, Popularize and Support research in fundamental sciences. Weekly seminars are held on social media platforms including Instagram, Facebook and Clubhouse.
ENGLISH LANGUAGE QUALIFICATIONS	<ul style="list-style-type: none"> • IELTS –Score: 7.5/9.0 Listening: 7.5, Reading: 7.0, Writing: 6.5, Speaking: 8.0