



EDUCATIONAL BACKGROUND			
Mechanical Engg, Dual Degree	Indian Institute of Technology, Madras	8.03/10	2022
Class XII (CBSE)	Chinmaya Vidyalaya, Trippunithura, Kerala	97.4 %	2017
Class X (CBSE)	Chinmaya Vidyalaya, Trippunithura, Kerala	10.0	2015
SCHOLASTIC ACHIEVEMENTS			
• Secured the <b>KVPY Fellowship</b> by Indian Institute of Science as <b>AIR 55</b> and <b>State topper</b> out of about 1 lakh students.			2016
• Awarded the <b>NTSE Scholarship</b> by NCERT as top <b>0.2%</b> out of approximately <b>5,00,000</b> students of class X all over India			2015
• Selected as <b>Top 20</b> students for national camp of <b>International Astronomy Olympiad</b> held by Homi Bhabha Centre.			2014
RELEVANT COURSEWORK			
• Programming & DSA using Python**		• Design & Optimisation of Energy sys. **	• Principles of Economics
• Probability and Statistics		• Differential Equations	• Inverse Methods in Heat Transfer
SKILLS			
LANGUAGES		DATA ANALYSIS TOOLS	SOFTWARES
Python, C++, MATLAB		Pandas, NumPy, Keras, Excel, SQL	ANYSYS, Fusion360, COMSOL Multiphysics
PROJECTS			
ML Project Inverse Heat Transfer	• Simulated and predicted the heat transfer in a flat solid plate using <b>COMSOL Multiphysics</b> ; studied <b>effect of noise</b> • Predicted the characteristics of heat source based on boundary temperatures using <b>ANNs</b> with an accuracy of <b>99%</b> • Implemented a <b>regression</b> model for the inverse heat transfer problem using <b>Tensorflow</b> and <b>keras</b> library.		
Course Project Self-Balancing ball	• Implemented a model to balance a metal ball on a long, linear unstable groove track using <b>closed-loop PID</b> control. • Designed and built a model for the project using <b>Arduino</b> , servo motor, various sensors and <b>MATLAB</b> simulations.		
Course Project Chebyshev Mechanism	• Designed and built an accurate model to demonstrate the Chebyshev Straight Line Mechanism using wood • Created a kinematically accurate simulation for the model of the mechanism on <b>MATLAB</b> and <b>SIMULINK</b>		
PROFESSIONAL EXPERIENCE			
Summer Intern TATA Motors Car Plant May – July 2019	• Created a <b>3D model</b> of a flipping mechanism to install sunroof on TATA Nexon model <b>reducing the process time</b> . • Formulated the action plan for implementation of <b>industry 4.0</b> standards in the passenger car assembly line. • Documented and analysed <b>Engine assembly</b> shop, and studied the indigenous 1.5 CRAIL engine in detail.		
AI/ML Intern Digital Horizons April – June 2020	• Developed a <b>NLP Model</b> that made the learning process interactive by <b>automatically</b> generating Q-A pairs for user • Created a model to <b>extract text</b> from <b>multiple file formats</b> like PDF, DOCX and image and convert it to TXT format • Used libraries like <b>nlTK</b> & <b>spacy</b> to generate sub-topic-based Q-A pairs from text inputs with a <b>BLEU score</b> of <b>0.52</b>		
POSITIONS OF RESPONSIBILITY			
Events Core Saarang 2021	• Spearheading a <b>3-tier</b> team of <b>200+</b> members; Organizing <b>100+</b> events at Saarang 2021, handling a budget of <b>22L</b> • Managing <b>120+</b> events of <b>15</b> cultural clubs, leading a team of <b>200</b> , with a budget of <b>27L</b> across the academic year • Brought forth <b>organisational restructuring</b> of clubs to tackle HR deficit and improve the line of communication • Successfully organised Saarang’s <b>first ever</b> online lecture series during lockdown on Instagram; a turnout of <b>300+</b>		
Head, Non-Competitive Events Saarang 2020	Led a <b>2-tier team</b> that conceptualises all non-competitive events; commanding a budget of <b>₹4L</b> & engaging a crowd of <b>40,000+</b> . Largest team in Saarang: comprising <b>28 coordinators</b> and <b>100+ volunteers</b> , split across <b>3 divisions</b> • Reduced the expenditure of <b>lectures division</b> by <b>75%</b> , while improving the line-up with speakers like <b>Sid Sriram</b> . • Conceptualized & implemented 1 <sup>st</sup> ever <b>Saarang Amusement Park</b> , generated revenue of <b>3.5L</b> ; footfall of <b>15000</b> • Organised the first ever <b>Car Exhibition &amp; Rally</b> showcasing <b>16 vintage cars</b> ; featured in multiple national dailies. • Head of <b>Informals Club</b> ; responsible for inter-hostel competitions; Organised 10+ events with 2500+ participants		
Coordinator, Evolve: Relaunch Shaastra 2019	Part of the 3-tier team responsible for organising all international summits, lectures & conferences; Budget of <b>15L</b> • Organized a 2-day <b>Career Returnship Conference</b> for women in STEM with 100+ professional participants. • Conducted Panel Discussions, Lectures, Workshops and Mentorship sessions; featured in <b>8 newspaper articles</b> . • Coordinated an Alexa Skill Development Workshop with Amazon for girl students; <b>150+</b> participants.		
SOCIAL INITIATIVES			
National Service Scheme, IIT Madras	• Part of Project NMS (Nehru Middle School), a teaching project for <b>under-privileged students</b> under <b>NSS</b> . • Organised and taught <b>English classes</b> alongside 8 volunteers for <b>200+</b> middle school students in Chennai. • Took part in monthly collection drives to crowdsource resources for the underprivileged in and around Chennai		
EXTRA CURRICULARS			
• Part of the <b>IIT Madras contingent</b> that participated in inter college fests like Festember (NIT Trichy) and Pravega (IISc). • <b>Winner</b> of Kerala regional round of CBSE cryptic crossword contest with 200+ teams participating from schools all over Kerala. • <b>Two-time national runner up</b> in Vidyarthi Vigyan Manthan organized by Vijnana Bharati (VIBHA) in collaboration with Vigyan Prasara. • <b>National Winner</b> of Cryptic Crossword event at Pravega, the inter college fest of IISc Bangalore, with a participation of <b>500+</b> . • <b>Second Runners Up</b> in the Kochi chapter of Bournvita Quiz Contest conducted by Derek O’Brien with about <b>300+ teams</b> .			