

Education

Indian Institute of Technology Bombay B.Tech. & M.Tech. in Aerospace Engineering (CPI 9.27/10) Department Rank 1	Jul'12-Present
Delhi Public School Bhopal CBSE, All India Senior School Certificate Examination (95.8% aggregate) Merit Certificate for being among top 0.1% in Mathematics Kishore Vaigyanik Protsahan Yojana Scholarship (Provisional) National Talent Search Scholarship	Jul'00-Mar'12

Positions of Responsibility

Institute Secretary of International Relations IIT Bombay <ul style="list-style-type: none">Increased engagement through initiatives which led to a jump of ~50% in student exchangesBolstered outreach by launching IR office's Facebook page, Exchange blog & 101 sessionOrganised sessions & delegation visits by international partners like DAAD & TU Munich	Apr'14-Mar'15
Editorial Board Member Insight, IIT Bombay's Student Media Body <ul style="list-style-type: none">Headed teams of student journalists & was involved in key ideation for print & web articlesArticle highlights: A review of Flipped Classrooms, Dissecting the Auto Ticketing System	Apr'15-Mar'16
Institute Student Mentor IIT Bombay <ul style="list-style-type: none">Part of 79 member team (selected from 351 applicants) mentoring the freshmen batchHelped 12 freshmen with various academic & non-academic issues	Apr'15-May'16
Department Academic Mentor IIT Bombay <ul style="list-style-type: none">Providing academic mentorship to 14 department sophomores over 2 tenures	Apr'16-Mar'17 Apr'14-May'15
Teaching Assistantship IIT Bombay <ul style="list-style-type: none">TA for Control System Design Techniques (post-graduate elective in Aerospace Engineering)TA for Vibrations & Structural Dynamics (core course for Aerospace Engineering students)TA for Thermodynamics (offered by department of Mechanical Engineering on edX)	Jan'17-Present Jul'16-Nov'16 Aug'14-Sep'14

Professional Experience

General Electric GE Aviation Bangalore <ul style="list-style-type: none">Worked on jet impingement heat transfer (used in jet engines) as a part of an R&D internshipEvaluated suitability of various CFD methods to the problem using NX, ICEM & CFX	May'15-Jul'15
Quetzal Mumbai <ul style="list-style-type: none">Created a Python based parser using NLP that scanned resumes & populated a databaseTool saved upto 24 man-hours daily in the process of data entry on integration	Dec'14
Function Space Pune <ul style="list-style-type: none">Created a computational toolkit & worked on front-end development for a campaign website	May'14-Jul'14
Shopsense Mumbai <ul style="list-style-type: none">Used Python to fetch product data & Photoshop to design demo apps in Qt for 11 brands	Dec'13

Projects

Task Allocation & Optimal Control in Epidemics Guide: Prof. Aditya Paranjape <ul style="list-style-type: none">Working towards strategies for public health authorities to optimally mitigate epidemicsBasing results on an interplay of Control Theory, Optimisation & Network Theory	May'16-Present
Dynamic Formations of Swarms Guide: Prof. Aditya Paranjape <ul style="list-style-type: none">Understood & simulated optimal task allocation strategies in robotic swarmsExplored epidemic dynamics as a similar problem & evaluated various models & control strategies	Jul'15-May'16
Molecular Cloning Guide: Prof. Swati Patankar <ul style="list-style-type: none">Carried out numerous wet-lab techniques for molecular cloning & protein expression	Dec'15
Modelling & Simulation of a Constricted Arc Guide: Prof. Kowsik Bodi <ul style="list-style-type: none">Implemented & tested numerical schemes for arc models (used in space propulsion)	Jul'15-Nov'15

Extracurricular

Sports	Running: Full Marathon (42.2 km) in 5h40m, Half Marathon (21.1 km) in 2h24m Swimming: Swimathon (12.2 km) in 12h	Jan' 17 Mar'13
Adventure	Trekking to ~13,000 ft (Hampta Circular trek by Youth Hostels Association)	May'16-Jun'16
Writing	1 st prize in institute wide writing competition (Write Up 3.0) at IIT Bombay	Aug'13
Music	Guitar player & singer - performed at 3 annual music events at IIT Bombay	
Languages	Pursuing French advanced, basic familiarity with Spanish & Japanese	
Volunteering	Mentor at Avanti Fellows	Aug'13-Jul'14
Speaking	Best Speaker at Shri Gurudev Gupta Inter-School Debate, Bhopal	Jan'12