

ACADEMIC ACHIEVEMENTS

- Secured **All India Rank 25** in **IIT JEE Advanced 2016** among 200 thousand candidates (2016)
- Achieved **99.99 percentile** score in **JEE Main 2016 (B.Tech)** out of 1.5 million candidates (2016)
- Achieved **99.54 percentile** score in **JEE Main 2016 (B.Arch)** out of 1.5 lakh candidates (2016)
- Secured **State Rank 11** in **AP EAMCET** out of 200,000 candidates organized under Ministry of Human Resource Development, **Government of Andhra Pradesh** (2016)
- Secured **State Rank 12** in **TS EAMCET** out of 150,000 candidates organized under Ministry of Human Resource Development, **Government of Telangana** (2016)

SCHOLARSHIPS AND OLYMPIADS

- Received Kishore Vaigyanik Protsahan Yojana Fellowship(**KVPY**) with an **All India Rank 28** (2014)
- Amongst the **top 1%** students in **each** of the **NSE** in **Physics & Chemistry** conducted by **IAPT** (2015)
- Amongst the **top 150** students in **NSE** in **Astronomy** in two consecutive years (2014,2015)
- Amongst the **top 30** students of the Region Coastal Andhra and Rayalaseema who qualified for **Indian National Mathematics Olympiad (INMO)** conducted by **HBCSE,TIFR** (2014)
- Amongst the **top 1%** students in **NSE** in **Junior Science** conducted by **IAPT** (2013)
- Secured **State Rank 6** in **Dr A S Rao Science talent Search Examination** (2013)
- Achieved **All India Rank 2,22** in two consecutive years in **SIMO** and **All India Rank 8** in **SICHO** conducted by **SIMO Education** (2012,2013)

KEY PROJECTS

Book Store

Autumn 2017

Guide: Prof. Kavi Arya (*course project*)

IIT Bombay

- Developing an web application which serves as an online bookstore for reading and sharing journals and books
- Implementing features like Login,Search by Name/Genre and Uploading the journals & books and chat box using libraries of Django framework
- Building an interactive interface where users can form communities, follow others, rate and review the books

Autonomous Follow Bot

Summer 2017

Institute Technical Summer Project

IIT Bombay

- Developed a Self driving bot which follows a moving bot by maintaining a specific range of separation
- Used OPEN CV, picamera and numpy libraries for implementing image processing with python
- Programmed Raspberry Pi in Python for controlling the bot
- Implemented PWM and PID for having smooth control over the movement of bot

Othello Game

Spring 2017

Guide: Prof. Amitabha Sanyal (*course project*)

IIT Bombay

- Developed the classic Reversi game in the Racket programming language with two-player, one-player mode
- Featured the one-player mode (Human vs. Computer) with various difficulty levels implemented using the Minimax Algorithm and Alpha-beta pruning for efficiency
- Considered various heuristic techniques to determine most optimal moves by computer.
- Implemented a LAN-Multiplayer mode to play via. a LAN wirelessly using the universe package in Racket

Image Processing

Spring 2017

Guide: Prof. Amitaba Sanyal (*course project*)

IIT Bombay

- Developed an Image Editing tool in the Racket programming language to process an image using numerous functions and factors
- Implemented Histogram Equalization, Gaussian Blur, Perspective control and other fundamental features like crop, resize etc. for editing an image
- Created a Graphical User Interface using Racket GUI package to make it user-friendly

OTHERS PROJECTS

Crypto-Suite

Autumn 2016

Self Project

IIT Bombay

- Built a simple cryptosuite application using bigint class in C++
- implemented functions for encryption, decryption, key-generation, modulo multiplication and exponentiation for very large numbers and also Discrete logarithm using Baby step Gaint step algorithm

Mini-Lang Parser

Spring 2017

Guide: Prof. Amitabha Sanyal (*course project*)

IIT Bombay

- Developed a simple parser application to parse strings using Racket Programming Language
- Implemented functions to parse numbers, alphabets, variables, terms, expressions and assignment operator

TECHNICAL SKILLS

Programming

C++, C, Java, Bash, Python, Racket, Prolog

Web Development

HTML, CSS, JavaScript, Django

Softwares

GNU Plot, MATLAB, Git, Android Studio, L^AT_EX, AutoCAD, Arduino

POSITIONS OF RESPONSIBILITY

Coordinator

Autumn 2017 - Present

Events | **Tech Fest**

- Organising 25+ Exhibits of World-Class Innovations and Technological Developments
- Contacting & negotiating with various companies, Research Organisations and Educational Institution from 13 countries across the globe
- Leading a team of 10 Organisers in keeping track of latest innovations & technologies and invite them
- Implementing **Nirbhaya** - Self defense and mental training workshops for women, which will be implemented in various schools and colleges of 40+ cities across India targeting 10,000+ women

COURSES UNDERTAKEN

Computer Science

Data Structures and Algorithms+Lab*, Software Systems Lab*, Data Analysis and Interpretation*, Discrete Structures*, Digital Logic Design+Lab**, Computer Networks+Lab**, Design and Analysis of Algorithms**, Logic for Computer Science**, Computer Programming and Utilization, Abstractions and Paradigms for Programming, Programming Paradigms Lab

Mathematics

Calculus, Linear Algebra, Differential Equations

Others

Introduction to Electrical and Electronics Circuits, Economics*, Biology, Quantum Physics and application, Basics of Electricity and Magnetism

* courses to be completed by November 2016

** courses to be completed by April 2017

EXTRACURRICULARS

- Successfully attended **Vijyoshi Camp** for the KVPY scholars held in **IISc-Bangalore** aimed to inculcate research skills in the students (2015)
- Built a remote controlled car as a part of XLR8 conducted by **Electronics Club, IIT Bombay** (2016)
- Completed an year long course under **National Sports Organisation, IIT Bombay** in **Yoga** (2016-2017)
- Represented Hostel 6 in **Carroms GC** conducted by **Sports council, IIT Bombay** (2016)
- Member of Informals organising team during **Mood Indigo | IITB**, Asia's largest Cultural festival (2016)
- Completed a month long basic course in **Photography** conducted by **Cultural Council, IIT Bombay** (2017)
- Volunteered for Diabetes check-up camp **CURED** conducted by **TechFest, IIT Bombay** (2016)
- Worked as an organiser at **E-summit** conducted by **Entrepreneurship Cell, IIT Bombay** (2017)