ADITYA JETHA

ACADEMIC DETAILS

Year	Degree / Board	Institute	GPA / Marks(%)
---	B.Tech in Computer Science & Engineering	Indian Institute of Technology, Delhi	9.074
2016	CBSE	New GreenField Public Academy	92%
2014	CBSE	DPS Indore	10/10

SCHOLASTIC ACHIEVEMENTS

- **Joint Entrance Examination Advanced(JEE Advanced):** Secured All India Rank - **87** amongst 1.5 million applicants [2016]
- **Kishore Vaigyanik Protsahana Yojana:** Recipient of KVPY Fellowship-2014 securing All India Rank of **421**   [2014]
- **IIT Delhi Merit:** Conferred **twice consecutively** for ranking amongst the **top 7%** students for academic excellence [2016-17]
- **CBSE Merit Certificate:** Received an award for being among the **top 0.01%** in all India 12th Board Mathematics   [2016]
- **INPHO Olympiad Merit Certificate:** Amongst the **top 1%** of more than 40,000 students applied for INPHO   [2015]
- **NSEC Olympiad Merit Certificate:** Amongst the **top 1%** in the state who applied for NSEC Olympiad   [2015]
- **NSEA Olympiad Merit Certificate:** Amongst the **top 1%** in the nation who applied for NSEA Olympiad   [2015]

INTERNSHIPS

- **Intellicus (Impetus), Indore** (May, 2018 - July, 2018) : *Big Random Data Generator*
  - Developed a program to generate Big Random Data for the testing of the Kyvos Product used in Business Intelligence
  - Accessed the company's server and extract information from the various levels and shemas of an **On-Line Analytical Processing cube**
  - Generated random data in **terabytes** consistent with the company's data requirements to test their product for errors

PROJECTS

- **Multi-Cycle Processor Design (Professor Anshul Kumar)** (January,2018-March,2018) : *Course Project*
  - Developed a **multi-cycle processor** for **ARM language**, supporting memory access, arithmetic operations, functions etc
  - Designed on **VHDL**, using **Xilinx** for the simulation and generation of bitstream of the program so it works on BASYS 3 board
- **Software for Engineering Drawing (Professor Subhashis Banerjee)** (January, 2018 - March, 2018) : *Course Project*
  - Fabricated a program so that it takes front, top and side view of an object as input and the object can be viewed in **3D**
  - Created the UI and the backend in **C++**, various input options and ways to interact with the object were introduced in the program
- **Starlings Flock Simulation (Professor Subhashis Banerjee)** (March, 2018 - April, 2018) : *Course Project*
  - Constructed a program to **simulate the behaviour** of a flock of birds (starlings), predicting motion of the birds in 3D space and the impact of other environmental factors like predators and obstacles, developed on **Java and Processing**
- **B-Tree Implementation (Professor Mausam)** (September, 2017 - October, 2017) : *Course Project*
  - Designed a JAVA class, which implemented the concepts of **B-Tree**, taking a user input maximum size of a tree node
  - Implemented various functions for the tree to **update, insert, delete** nodes of the B-Tree in **logarithmic time** (log(n))
- **8 Puzzle Solver (Professor Mausam)** (October, 2017 - November, 2017) : *Course Project*
  - Used **dijkstra's algorithm** for an adjacency list representation to solve the 8 puzzle problem with weighted edges
  - The program found the smallest cost to solve the puzzle, and backtracked to give the corresponding set of moves of the solution

POSITIONS OF RESPONSIBILITY

- **Cultural Secretary, Girnar** (April, 2018 - present) : *Student Head for Cultural and Recreational Activities in Girnar House*
  - Elected as the Cultural Secretary amongst **750+ students**, for the proper conduction of BRCA activities in the hostel
  - Leading a team of **13 representatives** across 3 boards to oversee participation in 50+ inter hostel competitions and events
  - **Conceptualized, directed and executed** theme based decoration, cultural performances and ceremony at House Day 2018
- **Marketing Co-ordinator, Association for Computer Engineers and Scientists** (July, 2018 - present) :
  - Responsible for the marketing and publicity of events of ACES-ACM, ensuring that the events are held on a large scale
- **Training and Placement Cell Executive** (Jan, 2017 - October, 2017): *Member of the Training and Placement Cell, IITD*
  - Facilitated the Training and Placement process in IIT Delhi by conduction of various tests and interviews for companies
- **ACES-ACM Executive** (April, 2017 - April, 2018): *Member of the Computer Science Departmental Society*
  - Hosted various seminars throughout the year and conducted various competitions during Tryst like CodeHunt etc.
- **Student Mentor, Board for Student Welfare (BSW)** (July, 2018 - present) :
  - Guiding six first year students to ensure smooth transition into IIT Delhi, ensuring the comfort of the incoming students.

EXTRA CURRICULAR ACTIVITIES

- **Inter Hostel Competitions**: *Participated in various Inter-Hostel competitions across different clubs in a span of 2 years*
  - **Group Dance 2017, 2018** - Participated and Choreographed in the Inter Hostel Group Dance Competition 2017, 2018
  - **Duo+ Dance 2017** - Participated and Choreographed in the Inter Hostel Duo+ Dance Competition 2017
- **Finance & Admin Ac-Head Tryst, 2018**: *Member of the organizing committee of Technical Fest of IIT Delhi*