



Mihir Kulkarni
Computer Science & Engineering
Indian Institute of Technology Bombay

12D020007
UG Second Year
Male
DOB: 28/1/1994

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2014	9.88
Intermediate/+2	HSC (Maharashtra Board)	SVPT's Saraswati Rabodi School, Thane	2012	91.00
Matriculation	ICSE	Smt. Sulochanadevi Singhanian	2010	94.80

Major Academic Achievements

- **Department Rank 5** in a batch of 97 students
- Awarded **AP grade** for exceptional performance in *Calculus, Economics, Data Analysis and Interpretation* and *Introduction to Chemical Engineering* (2012-13)
- Awarded **Institute Academic Prize** by IIT Bombay (2012-13)
- Ranked **1192nd** in the IIT JEE out of 5 lakh students (2012)
- Ranked **494th** in the AIEEE out of a million students (2012)
- Awarded the **KVPY** scholarship by the Dept. of Science and Technology, India (2012)
- One of **6** students from Std XII to clear the Maharashtra Regional Mathematics Olympiad (2012)
- Among the **top 1%** among 43,000 candidates in the **National Physics Olympiad** (2012)
- Ranked **16th** in the state for the **Maharashtra Talent Search** (MTS) scholarship exam (2008)
- Awarded **Gold Medal** (for finishing in the state top 50) and then **Silver Medal** in the **Ganit Pradnya** exam conducted by the Mathematics Teacher's Association of Maharashtra (2005,2008)
- Awarded **Silver Medal** for reaching the final level of the prestigious **Homi Bhabha** exam (2009)
- Ranked **261st** in the nation and **1st** in the city for the National Cyber Olympiad, conducted by the Science Olympiad Foundation (SOF) (2010)
- Ranked **92nd** in the International Mathematics Olympiad, conducted by the SOF (2009)
- Pursuing a **minor in Mathematics**

Projects

- **Vaakya** (Summer '13)
Query processing system | Institute Technical Summer Project (ITSP) | Python, PHP
 - Created, in a team of 4, a first of its kind website providing comprehensive information about IITB's academic affairs all at one location
 - Wrote Python programs for **crawling** through IIT Bombay's internal network (including all department webpages) for *contact details*, *professors' research interests* and *courses taken*
 - **Linked information** including course *feedback*, *grading statistics*, course *content* and *courses teaching a particular topic*, along with *charts*
 - Used HTML and CSS with a PHP back end to provide an intuitive interface
 - Awarded **best Web And Coding Project** by STAB (student technical body) under ITSP '13
- **Zeno** (Spring '13)
Role Playing Game (RPG) | C++
Guide: Prof Sridhar Iyer, IIT Bombay
 - Developed an RPG with a detailed *storyline* and *battle mechanics* inspired by classic RPGs
 - Created a maze using a **ternary tree**
 - Implemented parameters such as *health*, *attack*, *defence*, *speed* in a complete battle system and features such as *power ups*, *boss battles*, *levels* etc.

• Air Hockey

(Spring '13)

One Player Game | Scratch

Guide: Prof Sridhar Iyer, IIT Bombay

- Simple mouse controlled one player Air Hockey game, with multiple levels and difficulty settings
- Implemented a basic **Artificial Intelligence** for the user to play against, which involved moving the opponent towards the y coordinate of the puck along a vertical line

Technical Skills

- *Programming languages* C++, Java, Python, Scratch, Ngspice
- *Web Development* HTML, CSS, PHP
- *Operating systems* Windows, LINUX

Key Courses Undertaken

Computer Science

Computer Programming and Utilization, Discrete Structures*, Data Structures and Algorithms (and Lab)*, Abstractions and Paradigms in programming (and lab) **, Automata Theory and Logic**, Design and Analysis of Algorithms**, Logic Design (and lab) **, Software Systems Lab**

Mathematics, Statistics and Others

Calculus, Data Analysis and Interpretation, Economics, Linear Algebra, Differential Equations, Real Analysis(Minor)*, Numerical Analysis**

* To be completed by December 2013

** To be completed by May 2014

Positions of Responsibility

- **Convener** of the **Literary Arts Club**, IIT Bombay, (2013-14)
 - Ran a summer quiz blog which got 15,000 hits in two months
 - Set institute wide Potpourris and a Food & Beverages quiz; involved in conducting all club events
- **Math teacher** at www.virtualvidyalay.org (2013-present)
Venture aiming to provide quality video lectures for Std 11/12 students (under construction)
- **Organiser, Coordinator** for Mood Indigo (Competitions), Asia's largest college fest (2012,2013)
Helped to organize and set Mood Indigo's competitions along with Nihilanth, the IIT-IIM quiz fest
- **Organiser** for TechFest (Lecture series), Asia's largest science and technology festival (2013)
Helped organize lectures given by eminent people such as Ashoke Sen, Stephen Cook, Shahn Majid

Extra Curricular

- **Semifinalist** at **TerraQuiz**, an international environment quiz organized by TERI and MoEF (Ministry of Environment and Forests), India (2010)
- Finished **1st** in the IIT Bombay **Sci-Tech** quiz (2012)
- Finished **1st** in **Open Potpourri** and **2nd** in **Creative Writing** in Freshiezza (freshman event) (2012)
- Ranked **4th** in **Math Olympics**, a math and logic competition for IITB freshmen (2012)
- Active contributor for several articles of InsIghT, the IITB media body; article leader for one (2013)
- Interests include abstract mathematics, teaching, quizzing, reading, writing, music