**Deependra Patel**
**Computer Science & Engineering**
**Indian Institute of Technology Bombay**

120050032
UG Second Year
Male
DOB: 21/09/1994

| Examination | University | Institute | Year | CPI / % |
|---|---|---|---|---|
| Graduation | IIT Bombay | IIT Bombay | 2014 | 8.49 |
| Intermediate/+2 | Madhya Pradesh Board of Secondary Education | Azad H.S. School, Datia | 2012 | 90.40 |
| Matriculation | Indian Certificate of Secondary Education | Holy Cross Ashram School, Datia | 2010 | 92.14 |

## ACADEMIC ACHIEVEMENTS

- Secured **All India Rank 411** amongst over **5 lakh** aspirants in **IIT-JEE 2012**
- Secured **All India Rank 355** amongst over **1.3 million** aspirants in **AIEEE 2012**
- **State Rank 7** amongst **140,000** students in Madhya Pradesh Pre Engineering Test **(MP PET 2012)**
- Achieved **All India Rank 198** in entrance exam (ISAT 2012) for Indian Institute of Space Science and Technology **(IIST)**
- Selected amongst **158** students from across the country in **SCRA 2012** conducted by Union Public Service Commission (**UPSC**)
- Awarded **Central Sector Scholarship** by Ministry of Human Resource Development **(MHRD)** for excellent performance in 12th board examination
- Awarded scholarship by **Government of Madhya Pradesh** for state rank 7 in MP PET 2012

## PROJECTS

### Chess                                                                                    *(Spring 2013)*
*[Guide: **Prof. Amitabha Sanyal**]*

- Built single/double player chess in **PLT Scheme** using Functional Programming
- Employed artificial intelligence using the **Minimax algorithm** with **alpha-beta pruning** to decide the best move for the computer player up to depth of 6
- Also playable over Local Area Network, used libraries of Dr.Racket for the implementation of graphics

### Yes! Boss                                                                              *(3-4th Aug 2013)*
*[Yahoo! HackU]*

- A **social networking portal** for interaction between company's employees and employer
- Developed after continuously coding for 24 hours using **HTML/CSS, PHP** and **MySQL**
- Served as **Group leader** of 3 members
- Implemented group discussion, assigning and submitting tasks, reviewing work by mangers, team management etc.

### i-Note, Handwriting to Text Converter                                    *(May-Jun, 2013)*
*[Institute Technical Summer Project (ITSP)]*

- Built an **Android app** which take notes in your handwriting and converts them into text
- Also implemented features of customized background colour and spelling out converted text
- Served as Group leader and demonstrated the project at **Tech Exhibition** held in the institute

### Statistical Analysis and Interpretation of Data                          *(Spring 2013)*
*[Guide: **Prof. Ganesh Ramakrishnan**]*

- Statistically and graphically analysed the **census data** of sub-districts of Thane and Murbad
- Modelled real life problems involving ATM machines such as flow of customers, filling in cash, cash withdrawals using various statistical tools like **linear regression** and **Bayesian statistics**
- Simulated the graphs of the same using Scilab

**Stars–game** *(Autumn, 2013)*

*[Guide: **Prof. Abhiram Ranade**]*

- Designed an interactive game in **C++** with **object oriented programming**
- Used **EZ Windows** canvas for graphics and also served as team leader
- Aim of the game is to eat stars smaller than itself to get bigger and avoid larger stars

## POSITIONS OF RESPONSIBILITY

### Institute Web Co-ordinator, UG Academic Council *(April, 2013 – present)*

- Designing and maintaining all the academic websites of the institute
- Made these web apps within first month of tenure
    - **Homepage generator** (takes basic information and generates homepage)
    - **Research Portal** (for searching interests and courses offered by professors)
    - **Query Management Portal** (automatically sends query mail to respective authority)
- Working with a team of 20, Institute Academic Council, for organising academic activities and reforms

### Co-ordinator in Publicity, Techfest 2014 *(April, 2013 – present)*

- Coordinating with the colleges across the country for organising events
- Managing all online publicity of Techfest 2014, which includes the managing of many major tech groups over internet and responding to their posts

## EXTRA-CURRICULAR ACTIVITIES

- Built a **Line Follower** Bot which involved LEDs, light sensors and programming a microcontroller (**Arduino)**
- **Taught** poor students of slum area for over a year in **NGO Abhyasika**,  National Service Scheme (**NSS**)
- Qualified Qualification round of **Google Code Jam**, 2013
- Participated in **Zero<1>,** 24 hours coding competition, conducted by Techfest 2012
- Completed **lawn tennis** summer camp conducted in the institute
- Represented hostel in **singing**, **literary arts**, **painting** and **poster making** competitions for Freshiezza (an Inter hostel freshmen competition)

## RESEARCH INTERESTS

- Avid interest in Data Structures and Algorithms
- Artificial Intelligence and Web Development

## SOFTWARE SKILLS

- Programming Languages    **C++, MIT Scheme (Lisp),** SWI Prolog, Python, Java
- Web Designing    **HTML/CSS**, **JavaScript**, **PHP**, **MySQL**
- Operating Systems    **Android**, Linux, Windows
- Software Tools    MATLAB, Scilab

## KEY COURSES UNDERTAKEN

| Core | Others |
|---|---|
| • Data Structures and Algorithms | • Marketing Management (**Minor**) |
| • Discrete Structures | • Linear Algebra |
| • Abstraction and Paradigm in programming | • Calculus |
| • Computer Programming and Utilization | • Data Analysis and Interpretation |
| • Automata Theory and Logic * | • Differential Equations |
| • Design and Analysis of Algorithm * | • Economics |
| • Logic Design * | • Introduction to Electrical and Electronic Circuit |
| • Software Systems and Lab * | • Numerical Analysis * |

*to be completed by April, 2014