



Sanket Barhate
Electrical Engineering
Indian Institute of Technology Bombay

120070010
UG Second Year
Male
DOB: 04/01/1995

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2014	9.58
Intermediate/+2	Maharashtra State Board	Deogiri College, Aurangabad	2012	94.83
Matriculation	Maharashtra State Board	Maharashtra Public School, Aurangabad	2010	97.09

KEY ACADEMIC ACHIEVEMENTS

- Among the **Top 20 students** (out of 140) of Electrical Engineering Department of IIT Bombay.
- Secured **AP** (Absolute Performance) grade in the course of **Data Analysis and Interpretation** (IC 102) and **Introduction to Electronics** (EE 112).
- Selected for **Indian National Physics Olympiad** and **Indian National Chemistry Olympiad** through NSEP (National Standard Examination in Physics) and NSEC (National Standard Examination in Chemistry) respectively in 2011.
- Secured **All India Rank 303 in IIT-JEE 2012** among more than 4,70,000 candidates.
- Secured **All India Rank 215 in AIEEE 2012** among more than one million candidates.

SCHOLARSHIPS

- **All India Rank 9 in KVPY** (Kishore Vaigyanik Protsahan Yojana) 2011 exam conducted by Department of Science and Technology, Govt. of India.
- **NTSE** (National Talent Search Exam conducted by NCERT, Govt. of India) scholar since 2009.
- Recipient of **Dhirubhai Ambani Foundation Scholarship** since 2012 for being Maharashtra State Board Division Topper (Aurangabad Division).

ACADEMIC PROJECTS

Survey Designing and Data Analysis

[May 2013]

Guide: Prof. D. Manjunath, IIT Bombay

- Studied analyzing the **Behavior of People in making Choices**.
- Studied **Non-Parametric Statistics**. Also Studied **Introductory Game Theory**.

Fighter Pilot Game (Course Project)

[February 2013]

Guide: Prof. Shridhar Iyer, IIT Bombay

- Created replica of Dog Fight Java game of World War-2 incorporating the skills of Aerial Combat using **Scratch** Visual Programming Environment .

Movie Database (Course Project)

[April 2013]

Guide: Prof. Shridhar Iyer, IIT Bombay

- Created replica of IMDB interface using C++.

TECHNICAL PROJECT

Voice Controlled Switching (Institute Technical Summer Project)

[June 2013]

- Implemented voice recognition to preliminary extent (two words & two alphabets) using self-written code on Arduino (ATmega328P) microcontroller with **MFCC** technique.
- That recognized command is used for 240 Volts switching of appliances.
- Planning to implement the voice controlled remotes for TV using Raspberry-Pi.

COURSES UNDERTAKEN

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|--|--------------------------------------|
| • Calculus | • Data Analysis and Interpretation |
| • Linear Algebra | • Introduction to Electrical Systems |
| • Ordinary Differential Equations | • Introduction to Electronics |
| • Partial Differential Equation | • Network Theory |
| • Complex Analysis | • Electronic Devices and Circuits |
| • Chemistry | • Discrete Structures (CS Minor) |
| • Electricity and Magnetism | • Environmental Studies |
| • Computer Programming and Utilization | • Economics |

SKILLS AND INTERESTS

- Programming Skill: C/C++.
- Software: **R statistical software**, Introductory Matlab, Ngspice, AutoCAD, **Arduino** programming.
- Interested in the **Statistics and Data Analysis** and also pursuing this interest.
- Keen in learning **Signal Processing** and **Voice Recognition**.
- Having preliminary knowledge in **Analyzing non-verbal behavior of people like Body Language** and pursuing this further.

EXTRA-CURRICULAR ACTIVITIES

- Participated in XLR8 (BOT making Competition).
- Participated in RC plane making Competition.
- **Organizer** at **Techfest** (Exhibitions).
- **Organizer** at **Mood Indigo**.
- Interested in musical instruments like Flute and Keyboard.