



**Donthula Akshith Reddy**  
**Computer Science & Engineering**  
**Indian Institute of Technology Bombay**

**150050074**  
**UG Second Year**  
**Male**  
**DOB: 23-01-1998**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2017	9.69
Intermediate/+2	Telangana State Board of Intermediate Education	Sri Chaitanya Narayana Junior College	2015	98.00
Matriculation	Board of Secondary Education, Andhra Pradesh	Viswabharathi High School	2013	9.80

Pursuing **Honors** in Computer Science and Engineering and **Minor** in Electrical Engineering

## SCHOLASTIC ACHIEVEMENTS

- Secured **All India Rank 28** in **JEE (Advanced)** out of **150,000** candidates (2015)
- Secured **All India Rank 27** in **JEE Main (B.Arch)** out of **500,000** candidates (2015)
- Scored **100 percentile** in **JEE Main (B.Tech)** out of **1.3 million** candidates (2015)
- Secured **State Rank 2** in **AP EAMCET** out of **250,000** candidates (2015)
- Secured **State Rank 9** in **TS EAMCET** out of **150,000** candidates (2015)
- Awarded **AP grade** for excellence (given atmost to top 1% students) in **Physical Chemistry** course (2015)
- Scored **442/450** in **BITSAT** Examination conducted by Birla Institute of Technology (2015)

## OLYMPIADS AND SCHOLARSHIPS

- Secured **All India Rank 14** (out of 60,000 candidates) and awarded a scholarship in the prestigious **KVPY** fellowship, instituted by the Department of Science and Technology, Govt. of India (2013)
- Recipient of the **National Talent Search Examination (NTSE)** scholarship given by NCERT, Government of India (2011)
- Awarded with a **Gold Medal and Certificate of merit** for being among the **top 35** candidates in Indian National Chemistry Olympiad (**INChO**) conducted by HBCSE (2015)
- Selected amongst the **top 35** students for Orientation Cum Selection Camp (OCSC) in **Junior Science Olympiad** conducted by HBCSE (2012)
- Among the **top 300** of the country who qualified for **Indian National Physics Olympiad (INPhO)** and **Indian National Astronomy Olympiad (INAO)** conducted by HBCSE (2015)
- Among the **top 35** of the region Coastal Andhra and Rayalaseema who qualified for **Indian National Mathematics Olympiad (INMO)** conducted by HBCSE (2013)
- Secured **All India Rank 9** in **Unified Cyber Olympiad**, conducted by Unified Council (2012)
- Secured **All India Rank 7** and **All India Rank 8** respectively in the 41<sup>th</sup> and 42<sup>nd</sup> National Mathematics Olympiad conducted by the Association for Mathematics Teachers of India (**AMTI**) (2011,2012)
- Secured **State Rank 1** in **Dr A S Rao** Science talent Search Examination in **two** consecutive years (2010,2011)

## PROJECTS

### Feed'er - Academic Assistant App

(Autumn ' 16)

Guide: Prof. Sharat Chandran

IIT Bombay

- Developed an **Android** app which notifies a student for the upcoming projects and assignment deadlines and to offer regular feedback on courses
- Integrating a **Django** based web application with the app to serve as backend for the instructor to make announcements and to collate student feedback
- Implementing cyber security measures like XSS, CSRF and clickjacking for the website

### Movie Recommendation Engine

(Autumn ' 16)

Guide: Prof. Sharat Chandran

IIT Bombay

- Developed a movie recommendation engine in **Python** using popular collaborative filtering techniques
- Used **Pearson coefficient** to combine user preferences with ratings of critics to provide movie recommendations to the user

## Ball and Slider Game

(Autumn ' 16)

Guide: Prof. Sharat Chandran

IIT Bombay

- Developed in C++ using the **Box2D** physics simulation engine based on OpenGL
- Implemented features like dynamic frame rate, gravity, magnetic field and and physical components like spring and keyboard controlled slider

## Polynomial Class

(Autumn ' 15)

Guide: Prof. Varsha Apte (Course Project)

IIT Bombay

- Developed a Polynomial Class using C++ which supports basic operations on Polynomials
- Implemented **Newton Raphson method** to find real roots of a given polynomial
- Generated graph of the polynomial using **simplecpp** library developed by Prof. Abhiram Ranade

## INTERESTS

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- Discrete Structures
- Data Structures and Algorithms
- Data Analysis and Interpretation, Machine Learning

## POSITIONS OF RESPONSIBILITY

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### Web Coordinator

(May '16 - Present)

Entrepreneurship Cell

IIT Bombay

- Actively involved in maintaining the homepage of **E-Cell, IIT Bombay**, NEC (National Entrepreneurship Challenge) web application and CR (College Representative) web application

### Organiser

(Oct '15 - Dec ' 15)

Techfest

IIT Bombay

- Member of **ROBOWARS** organising team , an annual robotics competition held during TechFest, Asia's largest science and technology festival

## TECHNICAL SKILLS

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### Programming

C/C++, Bash, Python, GNU Octave, Java, R

### Web Development

HTML, CSS, JavaScript,

### Software

MATLAB, AutoCAD, L<sup>A</sup>T<sub>E</sub>X, SolidWorks, Inkscape, Git, gnuplot

## KEY COURSES UNDERTAKEN

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### 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

Signals and Systems\*, Introduction to Electrical and Electronics Circuits\*, Physical Chemistry, Biology, Quantum Physics and Application, Basics of Electricity and Magnetism

\* Course to be completed by November 2015

\*\* Course to be completed by April 2016

## EXTRACURRICULARS

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- Attended Vigyan Jyoti Shivir (**Vijyoshi Camp**) at Indian Institute of Science, Bangalore (**IISc**) (2014)
- Attended **Science Workshop** conducted by **Dr. A S Rao Awards Council** (2012)
- Planted many trees in the campus as a part of the **Green Campus** initiative under **National Service Scheme** IIT Bombay (2015-16)
- Represented my school in District Level **General Quiz** competition conducted by **Jana Vignana Vedhika** and bagged **third position twice** (2010,2011)
- Secured **Runner-up 1** position in the State Level **Abacus** Competition conducted by UCMAS (2008)
- Secured **2<sup>nd</sup>** place in **Mathematics Olympiad** conducted by Mathematics Department , IIT Bombay (2016)