



# Manikanta Reddy D

2<sup>nd</sup> year undergraduate  
Dept. of Computer Sciences  
Indian Institute of Technology, Kanpur  
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## EDUCATION

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<b>B.Tech, Computer Sciences</b> Indian Institute of Technology, Kanpur	2013- Grade : <b>8.0/10.0</b>
<b>Intermediate</b> Sri Chaitanya Narayana Group, Hyderabad	2011-2013 Grade : <b>96.9/100</b>
<b>High School</b> Sri Chaitanya Group, Hyderabad	2000-2011 Grade : <b>94.3/100</b>

## SCHOLASTIC ACHEIVEMENTS

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<b>AIR 121</b> <i>IIT-JEE, 2013</i>	<b>Gold Medal</b> <i>IGNOU-SAARC Olympiad, 2011</i>
<b>KVPY Scholar</b> <i>Placed 37th in CML, 2011</i>	<b>Aditya Birla Scholarship</b> <i>Nominated in 2013</i>

## SKILL SET

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Programming	Design	Misc
C	Photoshop	R
Python	After Effects	Weka
HTML	Gimp	OpenCV
CSS	Blender	bootstrap
js	Openshot	reveal.js
shell		

## PROJECTS

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- Analysis of Gamma Ray Data from Markarian 421 and Crab** (Dec 2013)
- This project involved Analysing Data from Gamma Ray Telescopes under Dr. K.K Yadav and Dr. R. C Rannot, at BARC, Mumbai.
  - The processing of images, made available from various cherenkov detectors, involved developing algorithms for separating objects by identifying boundaries/ edges in the low resolutions images

**Gesture Recognition**

(May-Jul 2014)

- Developed an Application in C using *OpenCV* capable of recognising gestures made by us.
- The video input was fed into the system which then characterised the motion of the hand into characteristic directions after passing various Gaussian filters and thereby used them to understand the gesture and hence execute a gesture.
- We then approached an other method of Gesture recognition using HSV color spaces and thresholdings

**Carnival of Rust**

(Aug-Nov 2014)

- A project by our Team was adjudged to be the Best Sectional Project in the course TA201
- The project involved modelling an *amusement park* utilising many industrial processes varying from *casting, welding, shearing*, etc.

**POSITIONS OF RESPONSIBILITY**

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**Senator UG Y13, 2014-2015**

Over 800 students elected me to a body of 8 students in the Senate of Student Gymkhana. As a senator I've been nominated to various ad hoc committees of senate which strive to provide solutions for persisting problems.

**Executive, Marketing, Antaragni**

Being in the team of Marketing Executives meant to be responsible for all the marketing, from inviting sponsors to maintaining their publicity throughout the festival. Working as an executive I got the opportunity to enhance several of my values and skills.

**Student Guide, Counselling Service, IIT Kanpur**

The counselling service screens a few individuals to aid a group of six freshmen into the campus and to mentor them periodically, so that they have a smooth transition while adjusting to new life of IIT Kanpur.

**Secretary, Astronomy Club, IIT Kanpur**

I made a website for the flagship event of the club Eyes on the Skies which had over 3400 views. I was in the team of a select few, involved in building India's first Student Built and Student run Observatory at IIT Kanpur. I'm currently building the club's website

**EXTRA CURRICULAR ACHIEVEMENTS**

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- First position in Astronomy Quiz, thrice, held during Takneek13, Techkriti14 and Takneek14.
- First position in Star Hunt, Techkriti14.
- First position in Environmental Case Study, Green Opus 14.
- Second position in Whats Up, Techkriti 14.
- Second position in Planetarium Show making, Spectrum14.

INDIAN INSTITUTE OF TECHNOLOGY  
GRADE REPORT

ROLL NO : 13265

NAME : DORNALA MANIKANTA REDDY

DEPARTMENT : COMPUTER SC. & ENGG.  
PROGRAM : BACHELOR OF TECHNOLOGY

YEAR/SEM	COURSE TITLE	UNIT	GRADE	SPI	CPI
2013-2014 FIRST	CHM101A CHEMISTRY LABORATORY	3	A		
	ESC101A FUNDAMENTALS OF COMPUTING	14	B		
	MTH101A MATHEMATICS I	11	B		
	PE101A MORNING EXERCISE	3	S		
	PHY103A PHYSICS II	11	C		
	PSY151A INTRODUCTION TO PSYCHOLOGY	11	B		
				7.7	7.7
2013-2014 SECOND	CHM102A GENERAL CHEMISTRY	8	B		
	LIF101A INTRODUCTION TO BIOLOGY	6	B		
	MTH102A MATHEMATICS II	11	B		
	PE102A EVENING EXERCISE	3	S		
	PHY101A PHYSICS LABORATORY	3	B		
	PHY102A PHYSICS I	11	A		
	TA101A ENGINEERING GRAPHICS	9	A		
				8.8	8.2
2014-2015 FIRST	COM200 COMMUNICATIONS SKILLS: COMPOSITION	5	S		
	CS201A MATHEMATICS FOR COMPUTER SCIENCE-I	9	C		
	CS210A DATA STRUCTURES AND ALGORITHMS	12	B		
	ESC201A INTRODUCTION TO ELECTRONICS	14	B		
	ES0202A MECHANICS OF SOLIDS	11	B		
	TA201A MANUFACTURING PROCESSES I	6	B		
				7.7	8.0