



# Manikanta Reddy D

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

## EDUCATION

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

## SCHOLASTIC ACHIEVEMENTS

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

## SKILL SET

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<b>Programming</b>	<b>Design</b>	<b>Misc</b>
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.

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