

Saurav Kumar



Computer Science and Engineering

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EDUCATION

EXAMINATION	UNIVERSITY	INSTITUTE	YEAR	CPI/%
Graduation	IIT Kanpur	IIT Kanpur	2016(expected)	8.3*/10.0
Intermediate(+2)	CBSE	Chinmaya Vidyalaya	2012	94.8%
Matriculation	CBSE	Chinmaya Vidyalaya	2010	95.0%

* at the end of third semester.

SCHOLASTIC

- **All India Rank 187** in IITJEE-2012 among 4.5 lakh students.

ACHIEVEMENTS

- Secured **All India Rank 97** in AIEEE-2012 among 1.2 million students.
- Shortlisted for the interview of Aditya Birla Scholarships 2012.
- National **top 1%** in National Standard Examination in Physics(NSEP) 2011-12, National Standard Examination in Chemistry (NSEC) 2011-12 and National Standard Examination in Astronomy (NSEA) 2011-12.
- Declared successful in **Indian National Mathematical Olympiad (INMO)** in 2011 and in 2012, conducted by Homi Bhabha Centre for Science Education (HBCSE).
- Secured **All India Rank 2** in 2009, **All India Rank 9** in 2010 and **All India Rank 9** in 2011 in National Cyber Olympiad (NCO) organised by Science Olympiad Foundation (SOF).
- Secured **All India Rank 10** in 2011 and **All India Rank 28** in 2012 in National Science Olympiad (NSO) organised by Science Olympiad Foundation (SOF).
- Awarded **KVPY (Kishore Vaigyanik Protsahan Yojna) Fellowship** in 2010 by Department of Science and Technology, Government of India.
- Awarded **NTSE Scholarship** based on National Talent Search Examination 2008 by NCERT, Government of India.
- Qualified for ACM ICPC (International Collegiate Programming Contest) Amritapuri Regionals 2013.

PROJECTS AND **Bot Automation using Raspberry Pi**

DEVELOPMENTS *Summer Project under Programming Club*

Guide : Adarsh Jagannatha

May 2013

Automated a bot with on-board web-camera to search a green ball and to reach near it using Raspberry Pi's GPIO, OpenCV libraries for image processing in Python programming language.

Github Link: <http://github.com/2020saurav/raspi>

ImageBucket

App development in Yahoo! HackU

August 2013

The app, developed within 24 hours contest, searches for images on local disk based on queries such as number of persons in the image, prominent color of the image, image size and date. It uses OpenCV libraries for face-detection in Python to generate a database for each folder. The PHP based front end queries the database and presents very fast and good results.

Github Link: <http://github.com/2020saurav/hacku13>

SKILLS AND

- *Languages:* C, C++, Python, Perl, Bash

INTERESTS

- *Web Development:* PHP, HTML, XML, Javascript, CSS, MySQL
- *Other:* Latex, GNU Octave, Git

KEY COURSES

- *Core:* Fundamentals of Computer Science, Data Structure and Algorithms, Computing Laboratory, Computer Organization*, Discrete Mathematics*, Logic for Computer Science*.
- *Breadth:* Calculus, Linear Algebra, Ordinary Differential Equations, Complex Analysis, Introduction to Electronics, Probability and Statistics*.

UNDERTAKEN

* to be completed in April 2014.

POSITIONS OF

- **Web-Executive**, *Science & Technology Council, IIT Kanpur May'13 - present*
Maintenance and Updation of SnT Website and SnT Blog.

RESPONSIBILITY

- **Secretary**, *Programming Club, IIT Kanpur May'13 - present*
Working with a team of 17 for smooth conduction of various activities of the club and organizing workshops for freshmen for various events.

MISCELLANEOUS

- Awarded DST Medal for IGNOU-UNESCO Science Olympiad 2010.
- Awarded Best Student (Academics) Award 2012 from Chinmaya Vidyalaya, Bokaro.
- Successfully completed one year NCC course at 2-UP-CTR, IIT Kanpur.