

# Sarthak Ahuja

2012088 Email: [sarthak12088@iiitd.ac.in](mailto:sarthak12088@iiitd.ac.in)

DOB: June 16, 1994

Address: AC-1/159A Shalimar Bagh, Delhi-110088

WWW: [sarthakahuja.org](http://sarthakahuja.org)



## Education

### IIIT-Delhi

B.Tech(CSE) (2012 – Present)

CGPA: **9.0/10.0**

(till 6<sup>th</sup> Semester)

### Apeejay School Pitampura, Delhi

CBSE Class XII (2011 – 2012)

Per%: **93.2%**

### Apeejay School Pitampura, Delhi

CBSE Class X (2009 – 2010)

CGPA: **10**

## Skills

### Area of Interest

Image Processing, Computer Vision, Pattern Recognition, Machine Learning, Algorithms, Software Design and Development

### Programming Language

Matlab, C, C#(Basics), C++, Python, Java SE, Android Java, HTML, CSS, PHP, ABAP for SAP, Ruby, Javascript, R(Basics), SQL

### Tools and Technologies

Visual Studio, Ruby on Rails, Django, PHP, Android SDK, Eclipse, Jekyll, ROS, NetBeans, Latex, photoshop, illustrator, InDesign, git, SVN

### Technical Electives

Theory of Computation, Image Analysis, Software Engineering, Data Mining, Mobile Computing, Computer Vision, Pattern Recognition, Practice of Programming, Machine Learning (Coursera)

## Work Experience

### Swarath – Autonomous Car (Industrial)

(May,15 –present)

IIIT-Delhi

Currently a member of IIIT-Delhi's core team in the Driver Less Challenge by Mahindra. Lead a team of 2 and designed the Test Bench and Perception Module in ROS/C++.

### Meri Awaaz (Industrial)

(Oct,14 –present)

Mutiny Labs

Currently Product Head (Web) at a two year old start up aimed at bridging the gap between politicians and citizens by developing the perfect complaint redressal system. Link: [meriawaazapp.com](http://meriawaazapp.com)

### Lava International (Industrial)

(June,14 –Aug,14)

Noida Office

Co-op at the IT Department of Lava International working on designing and handling Tertiary Systems.

Worked as a SAP ABAP Trainee in the Technical Team.

### Mo Magic Technologies (Industrial)

(June,14 –Aug,14)

Noida Office

Worked as a Co-op Android Application Developer and trainee. Developed a commercial application 'Handsfree', a driver assistance application. Got exposed to application testing.

### AIIESEC (Rural)

(Aug,13 –April,14)

Delhi University

Worked as Team Leader in the CIM Department. Organized youth conferences and events. Handled their websites, wikis, business intelligence reports and designs.

### Teaching Assistant (Teaching)

(Aug,14 –May,15)

IIIT-Delhi

CSE101: Introduction to Programming

CSE102: Data Structures and Algorithms

## Selected Projects

### Distress Detection

(Aug,14 – present)

Guide: Dr. Sanjit Kaul

Team Size-1

An Android Application project which uses audio data and machine learning algorithms to collect and analyze nearby data to detect distress activity in the surroundings.

### SLAM in Egocentric Videos

(Jan,15 – present)

Guide: Dr. Saket Anand

Team Size-1

Project aiming at finding a novel way to deal with the challenges of pose estimation in egocentric videos like frequent head movement and object removal.

### Image Colorization using Chrominance Blending

(Aug,14 – Nov,14)

Guide: Dr. Mayank Vatsa

Team Size-2

Implementing and Analyzing the performance of Chrominance Blending Technique proposed by Liron Yatziv and Guillermo Sapiro in their paper on the same as compared to other conventional Algorithms.

### Automatic Detection of Prolonged Narcotic Users using Face Images

(Jan,15 – May,15)

Guide: Dr. Richa Singh

Team Size-2

Course project involving the evaluation of prevalent pattern recognition techniques to perform binary classification on a in-the-wild dataset of Mugshot Images of drug addicts.

### CoDrive: Crowd Sourced Memory Sharing

(Jan,15 – May,15)

Guide: Dr. Rahul Purandre

Team Size-4

A crowd-sourcing based android application to allow temporary sharing of phone memory space among peers easily and securely.

### ReWise: In-Class Quizzing Application

(Aug,14 – Nov,14)

Guide: Dr. Vinayak Nayak

Team Size-5

An android application to hold quick in-class quizzes. Intuitive UI, Ever Growing Question Bank, Statistical Analysis of Quizzes as well as Individual Performances and Gamification using Badges.

## Positions of Responsibility

- Elected Member of the Student Council. DAC Representative. (April,15 – present)
- Member of the Core Organizing Committee – Esya'14 (May,14 – Sept,14)
- Member of the Placement Committee – IIIT-Delhi (Jan,15 – present)
- Organizing Team – IIIT-Delhi Research Showcase'14 and '15
- Founder and Club Administrator – Ink. (Design Club) (Aug,14 – present)
- Founder and Club Administrator – IIIT-Delhi Media Panel (Jan,15 – present)
- Club Administrator – Foobar (Programming Club) (Jan,15 – present)
- Club Administrator – MadToes (Dance Club) (Sept,13 – April,14)

## Awards and Achievements

- Won First Prize in the Project Showcase Event at IIIT-Delhi RS'15 for "Distress Detection".
- Secured a position in the top 10 of Androidathon held on 20<sup>th</sup> July 2014 at 91springboard.
- 3<sup>rd</sup> position in Intra-IIIT-Delhi programming contests – ProSort[19] and ProSort[22].
- Merit Certificate in the National Mathematics Olympiad (2009) from DAMT.
- Inspire Internship Program (2010) - Department of Science and Technology, Govt. of India.
- Distinction in the Educational Assessment conducted by University of New South Wales, Australia (2008) top 2% of Participants in Delhi in Mathematics

## Interests and Hobbies

- I am a *freelance graphic designer* having completed quite a few projects over the past three years. A glimpse of my work can be seen at [behance.net/sarthakahuja](http://behance.net/sarthakahuja).
- I am a sports enthusiast, eagerly following cricket, football and tennis. When not working or designing, I can be found on the football field, if not the basketball court.

Declaration: The above information is correct to the best of my knowledge.

Sarthak Ahuja

Date: June 23, 2015