

# ANIKET BAJPAI

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## EDUCATION

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### Indian Institute of Technology Delhi (B.Tech.)

3rd Year, Computer Science and Engineering

2014 - Present

Overall GPA: 9.19/10

### Senior Secondary

Higher Secondary Certificate Examination(HSC), Maharashtra

2012 - 2014

Top 1% in Maharashtra

### Secondary

Indian Certificate of Secondary Education Examination (ICSE)

2012

Percentage: 97.0

## EXPERIENCE

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### Chekkoo Technologies

*Semester Internship (remote)*

June 2016 - present

- Used a deep neural network to obtain a condensed representation of faces (extracted from video).
- Implemented Agglomerative clustering with hybrid parameters to separate individual faces.
- Indexed labeled faces found in videos to make them search-able by name.

### Signzy Technologies

*Summer Internship*

May 2016 - July 2016

- Implemented and deployed an identity verification, background check, and forgery detection system as part of a team at Signzy Technologies, which won the most innovative product award by the RBI.
- Preprocessed id image to correct intensity variation and orientation, and used machine learning together with a rule based system to extract specific fields from a generic id card.
- Used machine learning and other techniques to detect image splicing in identity cards.

## KEY PROJECTS

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### Virtual assistant for mobile

Wishup Technologies

- Used natural language processing to classify the user's messages into one of 128 categories.
- Generated FSMs for each category to send messages and take actions as part of automating operations.

### Cloud based backend for IoT applications

Independent project - Prof. Saif K.M.

- Developed a home automation system using openhab and mqtt.
- Extended openhab to develop a flexible and scalable cloud-based service backend for IoT applications.

### App to aid visually challenged people

Goldman Sachs ABLE challenge

- Developed an app to deliver speech output from signboards, posters, and printed material in general.
- Implemented local adaptive thresholding and a fine tuned preprocessing algorithm on color images.
- Trained neural networks to perform OCR on the preprocessed image.

### Autonomous Robot for playing brick breaker game

Robotics Club IITD

- Developed a bot to play the brick breaker game as part of a competition at Kshitij, IITKGP.
- Object detection (bricks and ball) from video was used to control position and angle of paddle.

To view more projects and details, visit <http://www.cse.iitd.ac.in/~cs1140209/#projects>

## ACADEMIC ACHIEVEMENTS

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**Institute Merit Award:** Was placed among the **top 7 percent** of IIT Delhi in the first and second semesters of the 1st year (2014-2015).

**Aditya Birla Scholarship:** Continuing recipient of the **Aditya Birla Fellowship 2014** in the engineering stream awarded to 16 students across all engineering institutes in India

**IPhO 2014:** Represented India at the 45th **International Physics Olympiad (IPhO)**, 2014 and secured **Gold medal**.

**APhO 2013:** Represented India at the 14th **Asian Physics Olympiad (APhO)**, 2013 and secured **Bronze medal**.

**IJSO 2011:** Represented India at the 8th **International Junior Science Olympiad**, 2012 and secured **Silver medal**.

**IIT-JEE 2014:** All India Rank **55** in IIT-JEE Advanced 2014 exam among 150,000 students qualified to take the JEE Advanced, selected out of over 1.3 million students who took JEE-Mains exam.

**KVPY:** Secured **All India Rank 2** in **KVPY** 2012 conducted by the IISc, Bangalore and was awarded Fellowship in the Science Stream.

**NTSE:** Secured **All India Rank 1** in **NTSE** (National Talent Search Exam) 2010.

## RELEVANT COURSES

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<b>Ongoing</b>	Artificial Intelligence, Deep Learning, Analysis and Design of Algorithms, Networks
<b>Completed</b>	Data Structures and Algorithms, Programming Languages, Design Practices, Probability and Stochastic Processes, Discrete Mathematical Structures, Linear Algebra and Differential Equations
<b>Online(Self)</b>	Introduction to Machine Learning, Computer Vision, Digital Image Processing

## TECHNICAL STRENGTHS

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<b>Computer Languages</b>	C++, Java, python: proficient; haskell, lisp, ruby: intermediate; c#: basic
<b>Web Technologies</b>	nodejs, codeigniter, web2py, php, javascript, CSS, HTML
<b>Software &amp; Tools</b>	Caffe, Scikit-learn, OpenCV, Openhab, Arduino, Google App Engine, git, bash

## EXTRA-CURRICULAR

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Secured 2nd position in "Imagica", an image processing contest organized at Tryst 2015, IIT Delhi.

Secured 3rd position in "Cryptex", an image processing contest organized at Vortex 2016, IIT Delhi.

Secured 2nd position in the algorithm contest "Algorythm" at Tryst 2015, IIT Delhi (team of 2).

Qualified in the Top -500 teams in the world in the 1st round of Codechef Snackdown, 2015.

## OTHERS

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Providing guidance to 6 first year students for the year 2016-2017 as part of the Student Mentorship Program of IIT Delhi.

Active member of the Data Analytics And Research Group and Deep Learning group at IIT Delhi.

Active member of Robotics and Coding club IITD in the year 2014-2015.

Contributed as an Academic Resource Person for the International Physics Olympiad, 2015 held in Mumbai, India in July 2015.

Cleared grades 1-5 , Western music (keyboard) conducted by Trinity College, London.