

# Ashutosh Das

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## Education

| Examination                    | University/Board                 | Institute                                 | Year      | CPI/%   |
|--------------------------------|----------------------------------|---|-----------|---------|
| Under Graduate specialization: | Computer Science and Engineering |   |           |         |
| Graduation                     | IIIT Bhubaneswar                 | IIIT Bhubaneswar                          | 2013-2017 | 7.62/10 |
| Intermediate/+2                | CBSE                             | Sri Chaitanya Jr. College, Visakhapatna   | 2013      | 76.8%   |
| Matriculation                  | CBSE                             | DAV Public School, UNIT-VIII, Bhubaneswar | 2011      | 8.8/10  |

## Skills and Coursework

**Programming** C/C++, Python, Java, PHP, JavaScript

**Others** Internet of Things, Machine Learning, Computer Vision, Linux, Embedded Systems, Robotics, HTML, Git, LaTeX

**MOOCs** Machine Learning Foundations: A Case Study Approach by University of Washington on Coursera. Certificate earned on January 4, 2016

## Experience

### IASc-INSA-NASI Summer Research Fellowship

GUIDE: DR EKTA SINGLA, IIT ROPAR  
May. 2016-Jul. 2016

### 3D Reconstruction for Manipulator Workspace

COMPUTER VISION, KINECT, C++, POINT CLOUD LIBRARY (PCL), CMAKE, GNU MAKE

- Aim of the project was to get 3D model of the real world environment using multiple depth snapshots from Kinect sensor in order to compute the manipulator workspace in that environment.

## Projects

### Identify Sequences of Digits in an Image using Deep ConvNets

[SVHN-Digit-Recognition](#)

DEEP LEARNING, CLASSIFICATION, PYTHON, TENSORFLOW

Dec. 2016

- A Deep Convolutional Neural Network model that learns to recognize sequences of digits in a photograph. SVHN dataset is used.

### Predicting house prices using K-nearest neighbors regression

MACHINE LEARNING, REGRESSION, PYTHON

Jan. 2016

- Predict the output for the query input using the K-nearest neighbors. King County House Sales data set is used.

### J.A.R.V.S.H: A smart house project

INTERNET OF THINGS, C/C++, PYTHON, POCKETSPHINX, NATURAL LANGUAGE TOOLKIT (NLTK), EMBEDDED SYSTEMS

Jan. 2015

- Build a smart digital assistant which takes decision of controlling home appliances and capable of parsing speech commands.

## Position of Responsibilities

|           |   |                  |
|-----------|---|------------------|
| 2016-2017 | <b>Branch Chairperson</b> , IEEE Student Branch IIIT Bhubaneswar                                | IIIT Bhubaneswar |
| 2015-2016 | <b>Secretary</b> , Technetronic: The Robotics and Automation Club of IIIT Bhubaneswar           | IIIT Bhubaneswar |
| 2016      | <b>Technical Head</b> , Advaita, The annual technical and cultural festival of IIIT Bhubaneswar | IIIT Bhubaneswar |

## Honors & Awards

|      |   |                  |
|------|---|------------------|
| 2016 | <b>Winner</b> , TechNova: Technical Exhibition                  | Advaita, IIIT-Bh |
| 2016 | <b>Winner</b> , Switch Coding: Coding competition               | Advaita, IIIT-Bh |
| 2014 | <b>Runners up</b> , Bot Sumo: Automated robot fight competition | Advaita, IIIT-Bh |

## Extracurricular Activity

### Teaching different topics to freshmen

IIIT Bhubaneswar

- Taught topics like Linux, robotics, embedded systems, Raspberry Pi, Internet of Things

### Conducting technical events and workshops

IIIT Bhubaneswar

- Conducted many coding and robotics event through out the academic year
- Coordinated different workshops like Embedded Systems & Robotics, Internet of Things