

## EDUCATION

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- **School of Engineering and Applied Sciences, Ahmedabad University** Ahmedabad, India  
*Bachelor of Technology in Information and Communication Technology; GPA: 3.25* July. 2014 – May. 2018
- **Asia English School** Ahmedabad, India  
*Higher Secondary Education; GPA: 3.68 (9.2/10.0)* Aug. 2012 – March. 2014

## EXPERIENCE

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- **Uncanny Vision** Bangalore, India  
*Software Engineer* July 2018 - Present
  - **Automatic Traffic Control System(ATCS):** Developed a robust object tracking model using C++ in ATCS pipeline which improved accuracy of unique traffic congestion count from 83.5% to 91%.
  - **Neural Network Optimization:** Implemented a neural network that effectively pruned an object detection model by 20%(reduction in training parameters) with 2.6% accuracy loss and nearly 3x performance gain.
- **Uncanny Vision** Bangalore, India  
*Research Intern* Jan 2018 - May 2018
  - **Optical Character Recognition:** Designed the architecture of Optical Character Recognition(OCR) model on the top of base configuration and improved the accuracy of overall system from 82% to 89%.
  - **Object Tracking:** Designed and implemented generalized tracking model in C++ in Automatic Number Plate Recognition(ANPR) system pipeline and handled repeat license plates issue in a live camera feed.
  - **Bug Fixes:** Stability issues like memory leaks, job scheduling during multi-threading, managing CPU loads etc. during initialization of multiple instances of Automatic Number Plate Recognition(ANPR) system were fixed.
  - **Hyper-Parameter Tuning:** Reduced the training time by 11% by tuning different hyper-parameters in PyTorch framework.
- **School of Engineering and Applied Sciences, Ahmedabad University** Ahmedabad, India  
*Teaching Assistant* Aug 2017 - Dec 2017
  - **Data Analytics and Visualization:** Hosted weekly tutorial programming sessions on data mining tools, statistical analysis and visual representation of data. Jan 2016 - May 2016
  - **Data Structures and Algorithms:** Conducted tutorial sessions, curated theory/lab assignments and counselled students on academic matters.

## PROJECTS

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- **Pedestrian Detection:** Azure based modified Yolo v3 framework to detect persons in highly dense environment with .4% accuracy on caltech dataset.
- **Visual Question Answering:** Deep learning system that answer questions based on an image built using Keras using CNN and LSTM architecture.
- **Face Image Generation:** Using deep convolutional generative adversarial networks(DCGAN), generated real world like face images in latent space of input dataset.
- **Gesture Controlled Robot:** Robot built using AtMega 32 chip and controlled using 3 axis accelerometer sensor adxl335.
- **Text Encryption Tool:** Encryption tool built for text files using blowfish encryption algorithm in Java with GUI.

## PROGRAMMING SKILLS

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- **Languages:** Python, C++, C, Java, SQL
- **Frameworks:** Azure, PyTorch, Keras , Django, Torch

## ADMINISTRATIVE RESPONSIBILITIES

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### School of Engineering and Applied Sciences, Ahmedabad University

Ahmedabad, India

*Treasurer*

*Jan 2016 - Dec 2017*

- **Event Management Committee:** Managed the financial aspects of the events held in the college. Arranged sponsorship for the events.

*Member*

*Aug 2016 - Dec 2017*

- **Technical Committee:** Organized hackathons, inter-college tech quiz competitions, tech talks etc. Developed a website for the registration of events.

### Yuva Unstoppable, NGO

Ahmedabad, India

*Member*

*May 2016 - July 2016*

- **Mentor:** Taught basic programming in C to more than 30 underprivileged kids.

## HONORS AND AWARDS

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### Inter College Hackathon

*July 2017*

*Runner's Up*

- **Computer Vision Tool:** Developed a plug and play tool using Javascript PSX and WebGL libraries enabling user's to make simple computer vision applications using gui and generating code in the background.

### CII Smart Cities Competition

*Nov 2017*

*Finalist*

- **Smart Surveillance:** Presented a design solution of smart surveillance in cities, enabling smart vision in CCTV cameras using AI techniques.