

EDUCATION NANYANG TECHNOLOGICAL UNIVERSITY

BENG IN COMPUTER SCIENCE
Expected Dec 2018 | Singapore
Cum. GPA: 4.65/5.0
Major GPA: 4.98/5.0

UNIVERSITY OF WATERLOO

EXCHANGE SEMESTER
Jan-May 2016 | Waterloo, Canada

LA MARTINIÈRE BOYS COLLEGE

Grad. May 2014 | Lucknow, India
Higher Secondary Score: 97.75%
High School Score: 95.6%

COURSEWORK UNDERGRADUATE

Algorithms • Data Structures •
Operating Systems • Artificial
Intelligence • Neural Networks •
Computer Vision

SKILLS PROGRAMMING

Java • Python • JavaScript • Matlab

WEB AND APP DEVELOPMENT

HTML5 • CSS • jQuery • Bootstrap •
Django • React • Android

DEEP LEARNING

Caffe • TensorFlow • Keras •
PyTorch

OTHERS

Git • Bash • \LaTeX

AWARDS 3RD PRIZE

Best App, Accenture Hackathon
Singapore

DEAN'S LIST

NTU Year 1

SOCIETIES NTU STUDENTS UNION




2015-16
IT Director

NTU MODEL UNITED NATIONS & RED CROSS YOUTH

2014-16
Design Team

Utsav Garg

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utsavgarg 
utsav-garg 
utsavgarg96 

EXPERIENCE

GOOGLE SUMMER OF CODE | STUDENT DEVELOPER

May 2017 – August 2017

- Worked with the CloudCV organization on a project named Fabrik
- The project is an online collaborative tool to build and visualize neural networks
- Completed Caffe support. Added Keras support, continuous integration, network sharing, unit tests and made UI/UX changes.
- Tech used Caffe, Keras, Tensorflow, Django, React(JS), Webpack, Bash

VIDEO ANALYTICS LAB | RESEARCH INTERN

August 2016 – May 2017 | Indian Institute of Science, Bengaluru, India

- Worked with Konda Reddy Mopuri and Prof Venkatesh Babu on multiple research problems which apply deep learning approaches to computer vision tasks.
- Tech used Caffe, Tensorflow, Keras, Python, Matlab

NEWGEN SOFTWARE INC. | INTERN

May 2015 – July 2015 | New Delhi, India

- Worked on HTML form generator, a web based application to create custom form fields and add them to a HTML form. With the goal to generate forms that replace the existing ones in financial institutions.
- Tech used HTML5, CSS, jQuery, Bootstrap, Java Servlet

RESEARCH

FAST FEATURE FOOL | A DATA INDEPENDENT APPROACH TO UNIVERSAL ADVERSARIAL PERTURBATIONS

British Machine and Vision Conference, 2017 | London, UK

The paper presents a way to optimize universal adversarial perturbations without access to the target dataset.

CNN FIXATIONS | AN UNRAVELING APPROACH TO VISUALIZE THE DISCRIMINATIVE IMAGE REGIONS

Paper Submitted

The paper presents a way to visualize predictions of deep neural networks.

PROJECTS

DRONE GESTURE CONTROL | NTU UNDERGRADUATE RESEARCH EXPERIENCE ON CAMPUS (URECA)

Human Gesture Control of Multiple Quadcopter Drones.

The research project aimed at a hand gesture and touch based UI for intuitively controlling multiple quad-copters simultaneously.

TENSORFLOW CLASSIFICATION

A unified program to perform image classification for 8 popular convolutional neural networks(CNN) through a single interface
CNNs supported - CaffeNet, VGG-F, VGG-16, VGG-19, GoogLeNet, ResNet-50, ResNet-152, Inception-V3

TRIPSY | ACCENTURE HACKATHON SINGAPORE

An ionic app to help companies organize travel for their employees