

# VIRESH GUPTA

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## 🏆 Recent Awards

- 2017,18 **Dean's award for Academic Excellence**
- 2018 **Google Summer of Code 2018** with coala
- 2017 **Dean's award for Innovation in Research and Development**
- 2016 **Honourable mention** in Indian National Olympiad in Informatics (INOI)

## 📁 Projects

- Like Predictor**  
Jan'19 - Mar'19  
Team Leader  
Developed a predictor for likes on Instagram photos by leveraging Meta-Data, Textual and Image features using regression and a scraper for data curation.
- AI Algorithms**  
Nov'18  
Personal Project  
Wrote AI algorithms with from scratch, such as Ant Colony Optimisation for travelling salesman problem, A\* algorithm for puzzle 8, MiniMax algorithm, Genetic and Memetic algorithms.
- coantlib**  
Aug'18  
GSoC Project  
A python library that provides a linting API using parse trees. Integrates ANTLR with coala.
- Chrome Extension**  
Jun'18  
Personal Project  
A chrome extension built for navigating the intra-day charts provided by NSE (National Stock Exchange).
- ClubMan**  
Apr'18  
Personal Project  
A Club Management Portal based on JSPs. Built and tested with Apache Tomcat and uses JDBC powered MySQL backend.
- iDabba**  
Jan'17 - Mar'17  
Algorithm Designer  
An IOT based smart container, which can detect the objects kept in it using image processing and report the environmental conditions. Used Haar, SIFT and SURF classifiers.
- VR Game**  
Sep'16 - Nov'16  
Team Leader  
A single player virtual reality game in Unity, complete with the environment and a playable character. Uses Google Cardboard API.
- ChatIT**  
Aug'16 - Nov'16  
Personal Project  
A Global chatting platform, made using Flask framework. Uses asynchronous js instead of sockets. Currently **Deployed on heroku**.

## 🎓 Education

- 2016 - Now **BTech in CSE, Final Year at IIIT-Delhi**  
CGPA - 9.60
- 2014 - 2016 **CBSE's AISSCE (XII), Salwan Public School**  
94.4 %
- 2004 - 2014 **CBSE Standard X Examination, Salwan Public School**  
CGPA - 10.0

## ⚙️ Computer Skills

**Programming Skills :** C++, JAVA, Python, C

**Development Tools :** Linux, Shell Scripting, HTML 5, CSS 3, JS, Git, Powerpoint, Excel, Word, ~~LaTeX~~, Unity 5, Photoshop

**Familiar Frameworks :** ANTLR, Flask, Android Studio, VueJS, PyTorch, Bootstrap CSS, Mainframe z/OS

## </> Interests and Hobbies

### Technical

Competitive Programmer  
Open Source Contributor  
Active Hackathon Participant  
CTF Enthusiast

### Others

Photography  
Table Tennis  
Swimming

## 📱 Social Profiles

- 🌐 [github.com/virresh](https://github.com/virresh)
- 🌐 [linkedin.com/in/virresh](https://www.linkedin.com/in/virresh)
- 🌐 [virresh.wordpress.com](https://www.virresh.wordpress.com)
- 🐦 [twitter.com/virresh](https://twitter.com/virresh)

## Positions of Responsibility

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**Administrator**  
May'18 - Present

Administrator / President of college's Software Development society - Byld.

**Organizer**  
May'17 - Aug'17

Lead Organiser of HackIIITD (annual college hack), O(1) (Entrepreneurship hackathon).

**Web Dev. Head**  
Jun'17 - Aug'17

Head of the website development team of College's annual techfest Esya.

**Founding Member**  
Jun'17 - Present

Founding member of d4rkc0de (Security Club), Evaristé (Math Club)

**Founding Member**  
Jan'17 - Present

Founding member of college's Mathematics club - Evaristé

**Member**  
Aug'16 - Feb'17

Member of competitive programming club of College - FooBar

## Work Experience

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**Tech Intern, Adobe**  
May'19 - July'19  
Vector Graphics, Deep Learning  
Computer Vision

Developed a deep learning based architecture for interactive segmentation of vector graphics using real time user input with Adobe Illustrator team. Also worked on a novel method for creating infinite data for segmentation task from given vector images

**Undergraduate Research, IIIT-D**  
Aug'18 - Present  
NLP, Computer Vision  
Machine Learning

Characterizing extremist reviewers in online reviews under supervision of Dr. Tanmoy Chakraborty at [LCS2 Lab](#) and deception detection under supervision of Dr. Mayank Vatsa and Dr. Richa Singh at [IAB Lab](#).

**Remote Developer, coala**  
May'18 - Aug'18  
Program Analysis  
Compilers, Linting

[Worked](#) with developers of coala from all over the world and authored a python library for linting code using ANTLR parse trees [coantlib](#) from scratch for Google Summer of Code 2018.

## Languages

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Hindi, English, French

## Publications

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Actively working towards exploring various open problems in computer science

- [Bag-of-Lies, CVPR, CV-COPS 2019](#)
- [Hyperpartisan News detection, SemEval, NAACL 2019](#)
- [Universal EEG Encoder, BigMM 2019](#)

## Achievements at a glance

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- Prize winner in [TopCoder's humblefool hackathon 2017](#).
- Featured on IBM's wall of fame for Master the Mainframe contest [2017](#), [2018 \(part 2 winner\)](#) (for demonstrating z/OS JCL and COBOL programming capabilities)
- Recognised for achievement (top 50) in [Capture The Flag \(CTF\) organised by DRDO](#) (Defense R&D Organisation of India, Ministry of Defense).
- Perfect Score of 100% in the [first NPAT](#) (A programmers aptitude test conducted by NPTEL)
- Completed Applied CS with Android Course and Certification by Google.
- Member of Open Source and developer organisations like coala and FossAsia, Facebook Developer Circles, Google Developers Group. Have OSS contributions on variety of projects like NLTK, js-networkx.
- Speaker and Mentor at PyDelhi Meetups, GCI (2018) and GSoC (2019).
- Prize Winner in Various College Events - Hackathons (Byldathon'16, Game Development Hackathons, etc), Competitive Programming (Prosport 33), Programming language Adaptation (Darwin Games), Math Contests.