

VIRESH GUPTA

📍 Delhi, India

🌐 [HTTPS://BIT.LY/3eET7Fa](https://bit.ly/3eET7Fa)

🌐 [virresh.github.io](https://github.com/virresh)

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🏆 Recent Awards

2017,18, 19 **Dean's award for Academic Excellence**

2017,19 **Dean's award for Innovation in Research and Development**

2018 **Google Summer of Code 2018** with coala

2016 **Honourable mention** in Indian National Olympiad in Informatics (INOI)

🎓 Education

2016 - 2020 **BTech in CSE, Final Year at IIIT-Delhi**
CGPA - 9.63

2014 - 2016 **CBSE's AISSCE (XII), Salwan Public School**
94.4 %

2004 - 2014 **CBSE Standard X Examination, Salwan Public School**
CGPA - 10.0

📁 Projects ([virresh.github.io/projects](https://github.com/virresh))

Pommerwarrior

Nov'18
Team Leader

RL based agent for the classic bomberman game in open-ai environment. Task @ NeurIPS 2019. Best project in Artificial Intelligence course.

AI Algorithms

Nov'18
Personal Project

Wrote AI algorithms with from scratch, such as Ant Colony Optimisation for tsp, A* search for puzzle 8, MiniMax for tictactoe, Genetic and Memetic algorithms.

coantlib

Aug'18
GSoC Project

A python library that provides a linting API using parse trees. Integrates ANTLR with coala. Succesfully used by 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 (Haar, SIFT, SURF) and report the environmental conditions. Featured on [director's blog](#).

VR Game

Sep'16 - Nov'16
Team Leader

A single player virtual reality game in Unity, with an environment and 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**.

⚙ Computer Skills

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

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
Keyboardist
Table Tennis
Swimming

📱 Social Profiles

🌐 github.com/virresh

🌐 linkedin.com/in/virresh

🌐 virresh.wordpress.com

🐦 twitter.com/virresh

Positions of Responsibility

Languages

Administrator
May'18 - Present

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

Hindi, English, French

Publications

Organizer
May'17 - Aug'17

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

Actively working towards exploring various open problems in computer science

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)

Member
Aug'16 - Feb'17

Member of competitive programming club of College - FooBar

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

Work Experience

Undergraduate Research, IIIT-D
Aug'18 - Present
NLP, Computer Vision
Machine Learning
LCS2, IAB and MIDAS
Labs @IIITD

Graph network representation learning and Characterizing extremist reviewers in online reviews under supervision of Dr. Tanmoy Chakraborty at [LCS2 Lab](#), deception detection under supervision of Dr. Mayank Vatsa and Dr. Richa Singh at [IAB Lab](#) and Representation learning in EEG data under Dr. Rajiv Ratn Shah at [MIDAS Lab](#). Resulted in three accepted and two under-review publications

Deep Learning 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, under Vineet Batra. Resulted in filing a patent (currently under process).

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.

Achievements at a glance

- Speaker and Mentor at PyDelhi Meetups. Mentor at GCI (2018), [GSoC \(2019\)](#) and HackIIITD 2019.
- 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, PySvg etc.
- Coordinated and [designed programming activities](#) for first years during Induction 2018, 2019.
- 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).
- Taught underprivileged students at [Nai Udaan NGO](#).
- Perfect Score of 100% in the [first NPAT](#) (A programmers aptitude test conducted by NPTEL)
- Building a solution for consolidating employed guides in India under the Build For India initiative.
- Prize winner in [TopCoder's humblefool hackathon](#) 2017, won various College Events - Hackathons (Byldathon'16, Game Development Hackathons, etc), Competitive Programming (Prosport 33), Programming language Adaptation (Darwin Games), Math Contests.