



# Swarup Ghosh

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## Education

- B.Tech (Computer Science and Engineering)
  - 2017-2021, G D Goenka University, Gurugram
  - Current CGPA: 9.00/10.00
- Indian School Certificate
  - 2017, Delhi Public School Newtown, Kolkata
  - Aggregate: 86%

### Relevant Coursework (completed and currently studying)

- R Programming
- Stanford Machine Learning (Coursera)
- Google Maps APIs (Udacity)
- NoSQL Databases
- Database Management Systems
- Data Structures and Algorithms
- Object Oriented Programming through Java
- Web Programming through PHP and HTML
- Calculus for Engineers
- Software Engineering and Testing Methodologies

## Technical Skills

- **Languages:** Python, JavaScript, R, Java, C, Swift, PHP
- **Libraries and Frameworks:** Node.js, OpenCV, Scikit-Learn, Flask, Tkinter, Paho MQTT, LeafletJS
- **Tools:** Git, Docker, Markdown, Google Maps
- **Areas:** Machine Learning, Web Micro Services, DevOps, Computer Vision, API Centric Development
- **Platforms:** Linux, Google Cloud Platform, Amazon Web Services, Heroku, OpenShift
- **Databases and Storage:** MongoDB, Google Cloud Storage, AWS S3, MySQL, PostgreSQL

## Projects

- *Realtime Attendance Project* **[September 2018-present]**

Working on a project to make realtime attendance marking possible with the help of facial recognition using OpenCV and Scikit Learn. Ongoing research in the fields of Machine Learning models and Computer Vision techniques to tackle the different challenges relating to it. Attempts are being made gradually develop a complete production ready system.
- *Micro Climatic Modelling Project* **[April 2018-present]**

Working on a project that will be able to predict different climatic parameters. It deals with use of pub-sub messaging, voluminous amount of sensor data, use of maps and basic ML models.
- Virtual Trader Application [August 2017]

Worked with Christ University, Bangalore to develop a cloud-native (iOS-like UI) *web app* that is capable of simulating an *automated stock commodity market* with support for virtual trading.
- Stock Exchange Simulator [September 2016, April 2017]

Worked at high school level to deliver an *application* that served to simulate a stock exchange simulator for a school fest event. An *iOS app* as well as cloud native *web application* was developed. Received a **Letter of Appreciation** from Delhi Public School Newtown for the same.

## Activities

- Delivered a *workshop on Open Source and Git*, organised by GD Goenka University Coders Club to promote awareness about open source technologies and introduce students with Git VCS besides emphasising the need for community driven development.
- Aspiring to become a *GitHub Campus Expert*; currently engaged in GitHub Campus Expert Training (online).
- Participated at *Kharagpur Winter of Code 2018* to work and make open source contributions to a project that is based on realtime disaster relief.