

# Harsh Sanjay Agrawal

Mobile: +91 8850579478

Portfolio Website: [harshagr18.github.io](https://harshagr18.github.io)

Email: [harshagr1802@gmail.com](mailto:harshagr1802@gmail.com)

## EDUCATION

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**University of Mumbai** (SIES Graduate School of Technology)

*BE in Electronics and Telecommunication*

**CGPA: 7.7/10**

*Aug 2017 - Jul 2021*

**DAV Public School, Nerul**

*CBSE, Science (PCM,CS)*

**86%**

*Jul 2015 - Jul 2017*

**Don Bosco Senior Secondary School, Nerul**

*Matriculation*

**CGPA: 9.4/10**

*Jul 2008 – Jun 2015*

## PROJECTS

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### **Covid-19Supplies**

*Python | Django | mySQL*

Developed a python user interface where medical stores and hospitals can upload their supply counts directly from **excel sheets** to a mySQL database. User interface was a **Django web server** to display **live details** of the supplies and their location.

### **Epicentre Android**

*XML | Java | APIs*

Epicentre is the **android** based **Cloud Monitoring and Deployment** Tool built by SIESGSTarena Team. I coded the **android application** for integrating **firebase, mongoDB, Heroku, Github** and **TravisCI**. Crash and deploy checks.

### **IEEE SIESGST Smart Village Initiative**

*Django | PostgreSQL | AWS*

Built a **web server** for **analytics and data sciences research** coded using **Python-Django**. It uses AWS Buckets for databases.

### **Data Analytics Internship at Reliance Industries Ltd., Mumbai**

*Nov 2019 – Dec 2019*

Worked on **Attrition prediction, complaint classification, app recommender, web scraping** and **face recognition**.

**Technologies:** Python | Tensorflow | Hadoop | Jupyter Lab | OpenCV | Web Scraping | K-Means

## ACHIEVEMENTS

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### **PCE Ideathon 2020 (Winner)**

A platform to assess problem solving abilities as well as technical, management skills, apart from team building, report writing and presentation skills where we bagged **1<sup>st</sup> prize** in the undergraduate category with the project “**Covid-19Supplies**”.

### **Bytecamp Hackathon 2019 (Runner Up)**

The annual hackathon organised by SIESGST in association with the ISTE SIESGST student chapter where we bagged **3<sup>rd</sup> prize out of 150+** entries from various domains on the topic “**Giving Back**”.

### **Smart India Hackathon 2020 (Winner of internal hardware hackathon)**

Smart India Hackathon is a national Hackathon to provide students with a platform to solve some of the pressing problems we face in our daily lives where we bagged **1<sup>st</sup> prize** in the **hardware edition** of the internal Hackathon.

### **Nutanix Hybrid Cloud Scholarship and Intel® Edge AI Scholarship (Winner)**

“We received applications from many talented and motivated candidates, and yours truly stood out.” - Udacity

## Coding Skills

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**Machine Learning :** Python, Keras, Colab, Jupyter

**Web :** HTML, CSS, Bootstrap, JS, JQuery, Django, Flask

**Android Studio :** XML, Java, Kotlin

**Analytics :** PostgreSQL , MySQL, R

**Embedded :** C++, Java

**Image Processing :** Scilab, OpenCV

## POSITIONS OF RESPONSIBILITY

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### Computer language Tutor and Electronics Expert (*Chegg.Inc*)

- Worked as a tutor for **Mathematics, Computer language and Spoken language** at Chegg.inc for students worldwide.
- Worked as an expert for **Electronics** at Chegg India, answering questions posted by students.

### Developer Student Club Lead and Machine Learning Facilitator (*Google*)

- As the DSC Lead of SIESGST, working on various projects and have collaborated with the Google Developer Expert's Group in organising workshops, hackathons and building the coding culture in SIES Graduate School of Technology
- Conducted numerous **workshops** and **online sessions** to help beginners and peers start with machine learning as the Explore ML Facilitator in the previous year.

### Technical Mentor (*IEEE SIESGST*)

- Joined the student branch as a **technical volunteer**, was promoted to **technical head** in the subsequent year, and finally elected as the **technical mentor** to lead a team of 71 students from all branches of engineering.
- Developed a **website** as a forefront for IEEE SIESGST, it is regularly updated with ongoing events and team updates. It is regularly updated and maintained by the **tech team** of the chapter.

### Student Chapter Lead (*SIESGSTarena, Codechef Campus Chapter*)

- In my second year, joined as the ML Engineer, worked on a **recommender system** for the website, where appropriate blogs, questions and playlists were suggested to a user based on personal submission record using **K-Means**.
- In my final year, I led the chapter in conducting 7 Competitive Coding contests. Problem setting, testing, test case generation and on day maintenance. I have also worked on graphic designing during my time as the operations manager.

### Core Team member and Website Manager (*TEDxSIESGST*)

- Organising a TEDx event, starting from choosing the **topics and theme** of discussion, applying for a license to successfully organising TEDxSIESGST 2020 which accumulated over 5000 views on YouTube.
- Curation, operations handling and website management, including **coding a new web server** from scratch and **deploying it**.

## CERTIFICATIONS

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- **Tensorflow Developer Professional Certificate Program** (Deeplearning.ai)
  - 3 Independent Specializations consisting of 13 month long courses, learned the concept of **Neural Networks**, structuring **Machine Learning** projects, **sequence models**, **Natural Language Processing**, **Time series prediction** and advanced deployment scenarios including **device based deployment**.
- **Deep Learning: Face Recognition and OpenCV for Python Developers** (LinkedIn Learning)
  - Used a machine learning model can be trained to analyze images and identify facial landmarks. Learned the steps involved in coding **facial feature detection**, representing a face as a set of measurements, and encoding faces.
  - Leveraging the image-processing power of OpenCV using methods like **template matching** and machine learning data to identify and recognize features.

## EXTRACURRICULAR

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- **Merit in Guitar Rock and Pop Grade 1 and Grade 3 Theory of music Grade 1** (Trinity College London)
- **Winner of Scribblings Story Writing Competition** (Literary club SIESGST)
- **Winner of Technical Poster Presentation competition** (IEEE MGM CET)

## PROFILE LINKS

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- [LinkedIn.com/in/harsh-sanjay-agrawal](https://www.linkedin.com/in/harsh-sanjay-agrawal)
- [Github.com/harshagr18](https://github.com/harshagr18)
- [YouTube.com/c/harshsanjayagrawal](https://www.youtube.com/c/harshsanjayagrawal)
- [Twitter.com/harshagr1802](https://twitter.com/harshagr1802)