

# Harsh Sanjay Agrawal

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## EDUCATION

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

*BTech Electronics and Telecommunication*

**SGPA: 7.4**

*Aug 2017 - Jul 2021*

**DAV Public School, Nerul**

*Science*

**86%**

*Jul 2015 - Jul 2017*

**Don Bosco Senior Secondary School, Nerul**

*Matriculation*

**CGPA: 9.4**

*Jul 2008 – Jun 2015*

## INDUSTRY EXPERIENCE

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**Data Analytics Intern @ Reliance Industries Ltd., Mumbai**

*Nov 2019 – Dec 2019*

- Worked on **attrition prediction**, **complain classification**, **application recommender**, **web scrapping** and **face recognition** models under the supervision of Mr. Kumar Subramanian.
- **Technologies:** Python | Tensorflow | Hadoop | Jupyter Lab | OpenCV | Web Scraping | K-Means

## 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 the mySQL database. User interface was a **Django web server** for users to display **live details** of the same.

**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*

- This is a **web development** project aimed at aiding **analytics and data sciences research**. I coded this using **Python-Django** and integrated analytics tools, to receive and visualise our hardware output from the village site.

**AWS-Telegram Face Recognition Bot**

*AWS | PHP*

- A **face recognition Telegram bot**, which counts number of faces in any given image. **PHP code** runs on an **EC2 machine** model, an **S3 bucket** to store input-output and the ML model used was **Rekognition** all within AWS.

## ACHIEVEMENTS

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**Bytecamp Hackathon 2019 (Runner Up)**

- **Bytecamp** is the annual hackathon organised by SIESGST in association with the IETE SIESGST student chapter.
- The **Gesture Recorder** ranked **3<sup>rd</sup> out of 150+** entries from various domains on the topic “**Giving Back**”.

**Smart India Hackathon (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.
- The **Web - Based Autonomous Irrigation System** ranked **1<sup>st</sup> in the hardware edition** of the SIESGST Hackathon

## CODING SKILLS

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- **Android Studio** – XML, Java, Kotlin
- **ML** : Python, R, Tensorflow, Pytorch
- **Embedded** : C++, Java
- **Web** : HTML, CSS, Bootstrap, JS, JQuery, Django

## 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.

### Machine Learning Facilitator (*Google Explore ML*)

- Conducted numerous **workshops** and **online sessions** to help beginners and peers start with machine learning. Making them self sufficient, where they can start learning coding on their own.
- Teamed up with the **student council** of SIESGST to increase reach to every interested student possible.

### 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** for the student body in the final year of my BTech.
- Developed a **website** as a forefront for IEEE SIESGST, it is regularly updated with ongoing events and team updates. It is maintained by the **tech team** of the chapter.

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

- 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**.
- Led the chapter in conducting many online and offline competitive coding contests. Problem setting, testing, test case generation and making sure the contest runs smoothly. I worked with graphics during my time as 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.
- Curation, operations handling and website management, including **coding a new website** from scratch and **deploying** it. Making sure all the TEDx rules and regulations are followed and ensure smooth function of the event.

## HOBBIES

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- Instrumental Music, mainly Guitar and Drums
- Public Speaking and Competitive Coding
- Animation and Editing

## 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)
- [Twitter.com/harshagr1802](https://twitter.com/harshagr1802)
- [YouTube.com/channel/UCMq2gZt7mDj4n044H-eJ4hA](https://www.youtube.com/channel/UCMq2gZt7mDj4n044H-eJ4hA)