

Saurabh Agarwala

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• Education:

- [National Institute of Technology Karnataka \(NITK\), Surathkal](#) Aug 2017 – April 2021(Expected)
 - B.Tech in Information Technology
 - GPA of 8.78/10.00 as of March 2020
- All India Rank of 4497 out of 1.2 million candidates in JEE Main-2017

• Experience:

- December 2019 - January 2020: **Winter Intern** at [IIT Bombay](#). Extended the development of a free and **open-source tool** for chemical process simulation and modelling using Python, Qt and OpenModelica. The prospective users of this tool include professionals from both academia and industry.
- May 2019 - July 2019: **AI Intern** at [Binaize Labs](#), a startup in Bengaluru. Worked on **Sales Forecasting** for a retail brand. Using both historical sales data as well as attributes of stores and products, built - a) **Classical Time Series models** (ARIMA, etc), b) **Attribute-Based Forecasting models** (Random Forest, etc). Worked on **scaling the models** during both training time and during inference time.
- May 2018 – July 2018: Gained industrial experience in the field of **Web Development** at [Rise](#), a software company in Vizag as a summer intern. The technologies covered include HTML, CSS, JS and Bootstrap.

• Skills:

TECHNICAL	Experienced In	Familiar With
Programming, Markup and Scripting Languages	C, C++, HTML, Python, JavaScript	Java, TypeScript, GoLang, Bash
Environments and Tools	Linux, AWS EC2, Git, Google Colab, Qt, PyQt, Google Search Console	Microsoft Azure, Docker, Google Action Console
DBMS, Frameworks, APIs and Libraries	Django, MySQL, Node.js, Flask, OpenMP, OpenGL	Angular, Buffalo, CUDA

- **Leadership and Management:**
 - Primary Coordinator of **Hacktoberfest 2019**, which involved managing various events promoting **open source contributions**, and maintained the GitHub repository for the same purpose involving hundreds of contributors.
 - **Leading the team** for the development of a new official portal for Faculty Recruitment in the college

• Selected Projects

(All projects available on [GitHub](#))

- [SpeechTox](#): Web app developed as a part of a 24-hr hackathon along with a team of 3. The app employs a Linear Regression model to classify texts and songs into six categories of toxicity.
- [TaskForce](#): TaskForce is a Web Application for managing tasks and teams. Developed using Django and it supports creating teams, adding members to the teams, creating tasks, assigning it to selected members of a team, authentication, privacy and comments features.
- [Incident 2019 Website SEO](#): Worked on the **SEO** of the college cultural fest 'Incident' 2019 Website. The site enjoyed top ranks on all major search engines, hence easing the search for thousands of users.
- [Merkle Tree – Audit Proof](#): Worked with a team on a DSA project to implement Audit-proof using Merkle Trees with Python as the implementing language.
- [Ambulance Management System](#): Developed an application to allocate the best possible ambulance to a patient. Used ML to optimise the locations of ambulance based on request locations.
- [Attendance Management System](#): Developed as a team, an application to scan QR Code and record the attendance of students pursuing a particular course. Involved developing an Android App, setting up a server, using shell scripts and implementing the main backend logic using Java.

• Achievements

- Secured the [1st runners-up](#) position in the **national level hackathon** Hackverse involving around 200 participants from across the country.

• Extra-Curricular

- **Internship Coordinator** in the college for the year 2019-20
- Executive Member of IEEE NITK, Member of IEEE Computer Society and blog writer at [IEEE NITK](#)
- Executive Member at Web Enthusiasts' Club NITK, Artists' Forum NITK and Debating Society NITK