# SOMIL JAIN

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## Education

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|---|---|---|---|
| B.E. Computer Engineering | 7.82 CGPA | 2017 - 2021 | **Netaji Subhas University of Technology, New Delhi** |
| Class XII CBSE | 89.9% | 2016 | **Sri Krishna Public School, Najafgarh** |
| Class X CBSE | 9.8 CGPA | 2014 | **D.A.V. Public School, Jind (HARYANA)** |

## Work Experience

**Software Intern - Deutsche Telekom Digital Labs, Gurgaon (June 2020 - July 2020)**

- Developed an **Order Management System** using **ReactJS and Spring Boot.** Specifically worked on front-end.
- User can conveniently view business statistics and manage orders according to customer's need.
- Also has an Audit system to keep track of all the actions taken by the user.

## Projects

**Fast Neural Style**

- Implemented and designed a neural network from scratch which can combine a style image and context image to produce an output which has the structure of the context and texture and looks of the style image.
- This implementation is **4k - 5k times faster** than the naïve approach. Also developed a web App using this model.
- Tech stack: **Node.js, Tensorflow, Keras, Flask, HTML, CSS, Javascript.**
- **Link to the App: https://fast-neural-style.herokuapp.com**

**Anonymous COVID Contact Tracing**

- Worked in a team of two to develop a web-app, which can generate COVID warning signals to susceptible users without having to keep private user data on the servers.
- Used a distributed local database and client-side computation approach. All the GPS data is stored on client-side (local storage) and a client-side algorithm decides when to generate different kinds of warning.
- Major technologies used: **Node.js, PouchDB, HTML, CSS, Javascript and some web-APIs.**

**Mooc Attention Quantifier**

- Developed an app that can keep track of user's attention span during a video lecture. This application uses various features like **face and eye angle detection**, **background noise detection, Tab-on time and user transcription**.
- This application takes all these features in account and then generates a report having the detailed breakdown of user's attention span.

**Face Morphing and Denoising (Autoencoder Network)**

- Designed a machine learning model which can denoise an image having small to medium noise.
- This model can also perform face morphing using **encoder** and **decoder** networks separately.

## Accomplishments

- **98th Rank among 4400+ teams** in **ACM ICPC** 19-20 Preliminary Online Contest**.**
- **93 Rank in ICPC Amritapuri Regionals. https://icpc.global/ICPCID/QPFEJV6JCLG8**
- Won the **Now Prize** in **HackNsut 2019 ( hosting round, Team of two )** organized by **IEEE NSUT.**
- Got selected in **top 7** teams( software ) from the campus for **Smart India Hackathon (SIH).**
- Google Kickstart **Rank – 476 among 10000+ participants (Round D, 2020) (handle - Somz11).**
- Google Kickstart **Rank – 685 among 10000+ participants (Round C, 2020) (handle - Somz11).**
- Secured a **Rank of 20** in **SAMSUNG R&D INSTITUTE INDIA, BANGALORE PARICHAY** contest.
- Secured a **Rank of 2498 out of 1.2 million** students in JEE-Mains 2017.

## Technical Skills

- Programming Languages: **C++, Python, JavaScript, HTML, CSS, Java** (Basic)**.**
- Machine Learning Libraries and frameworks: **Tensorflow, Keras, Numpy, Pandas, Sklearn, Opencv, OpenAI.**
- Backend Technologies: **Node.js, Express.js, MongoDB, MySQL, PouchDB, Flask**.
- Front-end Technologies: **ReactJS (Basic), Material-UI, Semantic UI.**
- Data structures, Algorithms, Machine Learning, Reinforcement Learning, Git and Web Development.

**Interests: Economics, Physics, Maths, Music, Basketball and Learning new skills.**