SOMIL JAIN

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Education

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 Senior Secondary School, Najafgarh**
Class X CBSE	9.8 CGPA	2014	**DAV Public School, Jind (HARYANA)**

Work Experience

Software Intern - Deutsche Telekom Digital Labs, Gurgaon
Developed an **Order Management System Dashboard** using **ReactJS and SpringBoot.** I particularly worked on front-end using ReactJS. In this product, an admin can easily view business related statistics and manage orders according to customer's need.

Projects

- **Fast Neural Style**
  Implemented and designed a specialised neural network from scratch which can combine an artistic(style) image with a context image to produce an image which has the structure of the context image and texture and looks of the style image. This implementation is **4000 - 5000 times faster** than the naïve approach, also I have converted this model into an API and has developed a web App. Major technologies used: **Node.js, Tensorflow, Keras, vgg16, Flask, HTML, CSS, Javascript.** **Link:** 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 server. I have 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 application 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. Major technologies used: **Javascript, HTML, CSS, OpenCV.js.**
- **Face Morphing and Denoising (Auto-encoder-decoder Network)**
  Designed a machine learning model using **Tensorflow** and **Keras,** 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 ICPC 19-20 Preliminary Online Contest**.**
- **93 Rank in ICPC Amritapuri Regionals.** https://icpc.global/ICPCID/QPFEJV6JCLG8
- Won the **Now Prize** in **HackNsut (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, Scipy, Sklearn, TensorflowJS**(Basic)**, Opencv, OpencvJs**, **OpenAI.**
- Backend technologies **Node.js, MongoDB, MySQL, PouchDB, flask**.
- **Data structures**, **Algorithms, Machine Learning and Reinforcement Learning .**

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