

SOMIL JAIN

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EDUCATION

Class X CBSE	9.8 CGPA	2014	DAV Public School, JIND (HARYANA)
Class XII CBSE	89.9%	2016	Sri Krishna Public Senior Secondary School, NAJAFGARH
B.E. Computer Engineering	7.82 CGPA	August 2017 - Present	Netaji Subhas University of Technology

PROJECTS

- **Face Morphing and Denoising (Auto-encoder-decoder Network)**
Designed & created 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. **Encoder** network can independently work as an image encoder.
- **Tech-Blog App**
Developed a **Tech-Blog App**, on which users can post blogs by registering into the web app. Tech stack used :- **NodeJS, ExpressJS, MongoDB, HTML, CSS, and Semantic-UI**. User authentication is done using **PassportJS** as a dependency. This app uses **CSS media queries** for responsiveness and device independence.
- **Neural Style Transfer**
Used **transfer learning** to devise a method through which two images can be combined into one, having features of both the images. The generated image has the structure of the **context image** and texture and looks of **style image**. The model used for transfer learning is **vgg16**.
- **Smart Video Player**
A web app that controls the playback of the video embedded in it by using face and eye angle detection. This web app uses **HTML, CSS, Javascript, and OpenCV.js** for face detection. This app was developed in a hackathon (**HackNsut**), we were a team of two and my job was to code an algorithm through which the playback can work smoothly.
- **Image Classifier with Stimuli**
Created a 10 class image classifier using **Tensorflow** and **Keras**. This model not only classifies object but it also generates **visual stimuli** with respect to different convolutional layers using **Gradient Ascent** which can help in understanding the working of different layers.

ACCOMPLISHMENTS

- Secured **98th Rank** in **National ACM ICPC 2019-20** online round and got selected for the regional round.
- Secured **1st position** in **HackNsut (hosting round, Team of two)** organized by **IEEE NSUT** and won the **Now Prize**.
- Secured **20th Rank** in **SAMSUNG R&D INSTITUTE INDIA, BANGALORE PARICHAY** coding contest.
- Completed a **Deeplearning specialization (100%)** by Andrew Ng (**deeplearning.ai**).
- **JEE MAINS: AIR 2498**

TECHNICAL SKILLS

- Programming Languages: **C++, Python, JavaScript, HTML, CSS, Java (Basic), MySQL, Git, PHP(Basic)**.
- Data Science Libraries, frameworks and APIs: **Tensorflow, Keras, BigQuery, Numpy, Pandas, Scipy, Sklearn, TensorflowJS(Basic), Opencv, OpencvJs, OpenAI**.
- Good experience with **Machine Learning and Artificial Intelligence** technologies.
- Highly interested in **Reinforcement Learning** and its applications.
- Backend technologies **Nodejs, MongoDB(for Database), MySQL**. I have an intermediate knowledge of these.
- **Data structures and Algorithms** in **C++, Python and Java**.

INTERESTS

- Interested in learning about new technologies and understanding the core principles behind them.
- Interested in Machine learning and have been studying its working and applications.
- I would like to work in a company where innovation and originality are embraced.
- I also like playing basketball and badminton.