

Saksham Arora

Software Developer with experience in Python and Flutter. Detail-Oriented.
Passionate about Machine Learning and Computer Vision.

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[LinkedIn](#)
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[Portfolio](#)

EXPERIENCE

Google Summer of Code, Remote — Student Developer

MAY 2020 - PRESENT

Project Link: [Integrating Image Processing into DFFML](#)

- Contributed to Intel's [DFFML](#) (DataFlow Facilitator for Machine Learning) open-source project.
- Implemented OpenCV based operations for image manipulation and pre-processing.
- Wrapped PyTorch based Convolutional Neural Network Models with dynamic loading for classification on image datasets.

GirlScript Summer of Code, Remote — Project Mentor

FEB 2020 - MAY 2020

Repository Link: [Simulate](#)

- Helped beginners with getting started with Flutter and Dart.
- Mentored student developers in implementing mathematical visualizations and simulations in Flutter.

EDUCATION

Maharaja Agrasen Institute of Technology, GGSIPU, Delhi, India — Bachelor's of Technology in Information Technology (IT)

JULY 2018 - 2022 (Expected)

- Current GPA: 8.37

Lancer's Convent School, Delhi, India — High School

GRADUATED - MAY 2018

- High School - Class X : 9.0 CGPA
- CBSE - PCM with Computer Science - Class XII : 87.2%

PROJECTS

Simulate — Flutter and Dart

Project Link: [Simulate](#)

- A collection of simulations and visualizations in a cross platform Flutter based app.
- Smooth, informative and beautiful simulations based on mathematical concepts and algorithms.
- Support for Android, iOS and Web.

RoadFighterAI — Python, AI, NeuroEvolution, Deep Learning

Project Link: [RoadFighterAI](#)

- Remade the racing arcade game 'Road Fighter' using the pygame library.
- Used reinforcement learning techniques like Deep Q learning and NEAT and automated the game to play and get better by itself.

SKILLS

Programming Languages:

Python, C++, C, Shell, Dart, Lua

Frameworks and Libraries:

Python: Scikit-Learn, Pytorch, Tensorflow, OpenCV, PyGame, PyQt
Dart: Flutter

Data Structures and Algorithms

Object Oriented Programming

Google Cloud Platform

ACHIEVEMENTS

Google Actions:

Developed Google Actions live on the Google Actions directory for Google Assistant and received a T-shirt, Google Cloud Credits and Google Home.

INTERESTS

Machine Learning, Computer Vision, Project Management, Research.

OTHER PROJECTS

- BoxIt: A Flutter based multiplayer dot connecting game using Firebase.
- Toy-Neural-Network: A neural network library written from scratch for the purpose of better understanding deep learning concepts.
- Authored [DFFML Pytorch Models](#) and [Image Config Loading](#) pypi plugins during GSoC'2020.