

SKILLS

Programming Languages: Python, C++, C, Shell, Dart, Flutter

Frameworks and Libraries: Scikit-Learn, Pandas, Pytorch, Tensorflow, OpenCV, PyGame, PyQt, Flask

Others: Google Cloud Platform

Interests: Deep Learning, Machine Learning, Computer Vision, Research, Project Management, Mathematics

EXPERIENCE

Student Developer, Remote	Google Summer of Code	Spring 2020 - Summer 2020
<ul style="list-style-type: none">• Project Link: Integrating Image Processing into DFFML• Contributed to Intel's open-source project DFFML.• Implemented OpenCV-based operations for image manipulation, pre-processing, and created pipelines.• Wrapped PyTorch-based Convolutional Neural Network Models with dynamic loading for classification on image datasets.		
Project Mentor, Remote	Google Summer of Code	Spring 2021 - Summer 2021
<ul style="list-style-type: none">• Mentored student developers for Intel's Open-Source project DFFML, under the Python Software Foundation on projects involving :<ul style="list-style-type: none">- Archive support for machine learning models- Data cleanup operations- Jupyter notebook support		
Project Mentor, Remote	GirlScript Summer of Code	Spring 2020 and Spring 2021
<ul style="list-style-type: none">• Project Link: Simulate• Helped beginners with getting started with Flutter and Dart.• Mentored student developers in implementing mathematical visualizations and simulations in Flutter.		

EDUCATION

Delhi, India	Maharaja Agrasen Institute of Technology	Summer 2018 – 2022 (Expected)
<ul style="list-style-type: none">• Bachelor's of Technology in Information Technology (IT)• Current CGPA (till 6th Semester) : 8.77		
Delhi, India	Lancer's Convent	Spring 2004 - Spring 2018
<ul style="list-style-type: none">• High School - Class X : 9.0 CGPA• CBSE - PCM with Computer Science - Class XII : 87.2%		

PROJECTS

<ul style="list-style-type: none">• Handwrite — Python, Typography, Image Processing cod-ed/handwrite<ul style="list-style-type: none">- A tool that lets anyone create custom fonts based on their handwriting which can easily be used in text editors and word processors.• RoadFighterAI — Python, AI, Deep Learning sakshamarora1/road-fighter-ai<ul style="list-style-type: none">- Remade the racing arcade game 'Road Fighter' using the PyGame library.- Used reinforcement learning techniques like NEAT and Deep Q learning using PyTorch to create an AI car agent to learn to drive through traffic without collision.• Simulate — Flutter, Dart cod-ed/simulate<ul style="list-style-type: none">- A collection of smooth, informative, and beautiful simulations and visualizations based on mathematical concepts and algorithms.- Support for Android, iOS, and Web.
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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.
- Various Computer Vision projects such as Image Colorization, Sudoku Solver, etc.
- Authored [DFFML Pytorch Models](#) and [Image Preprocessing Operations](#) PyPI plugins during GSoC'2020.