New Delhi, India

SAKSHAM ARORA

SOFTWARE DEVELOPER. PYTHON, DEEP LEARNING, FLUTTER.

sakshamarora1001@gmail.com
LinkedIn
GitHub
Portfolio

SKILLS

Programming Languages: Python, C++, C, Shell, Dart, Flutter, R, SQL
Frameworks and Libraries: Scikit-Learn, Pandas, Pytorch, Tensorflow, OpenCV, PyGame, PyQt, Flask
Others: Git/GitHub, Google Cloud Platform, AWS, Docker, Firebase, Heroku, CI/CD
Interests: Deep Learning, Computer Vision, Research, Project Management, Mathematics

EXPERIENCE

Technical Product Analyst Intern **Juspay Technologies** **July 2021 - Present**
- Working with the Settlement and Reconciliation Team at Juspay in building a robust product to handle financial data and manage everyday financial operations.
- Working with - R, Python, PostgreSQL, Docker, AWS (utilizing Functional Programming concepts) to perform Data Analytics, Service Integration, Quality Assurance, and Testing.

Student Developer, Remote **Google Summer of Code** **May 2020 - August 2020**
- Contributed to Intel's open-source repository DFFML. Project Link: Integrating Image Processing into 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** **May 2021 - August 2021**
- Mentored student developers for Intel's Open-Source project DFFML, under the Python Software Foundation on projects involving - 1. Archive support for machine learning models, 2. Data cleanup operations, 3. Jupyter notebook support.
- Actively involved in brainstorming ideas, reviewing, and collaborating with student developers on tasks.

Project Mentor, Remote **GirlScript Summer of Code** **Feb - May 2020 and 2021**
- Project Link: Simulate
- Mentored student developers in implementing mathematical visualizations and simulations in Flutter.

EDUCATION

Delhi, India **Maharaja Agrasen Institute of Technology** **2018 – 2022 (Expected)**
- Bachelor's of Technology in Information Technology (IT)
- Current CGPA (till 6th Semester) : 8.77

Delhi, India **Lancer's Convent** **2004 - 2018**
- High School - Class X : 9.0 CGPA
- CBSE - PCM with Computer Science - Class XII : 87.2%

PROJECTS

- **Handwrite** — Python, Typography, Image Processing cod-ed/handwrite
  - 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
  - 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
  - A collection of smooth, informative, and beautiful simulations and visualizations based on mathematical concepts and algorithms.
  - Support for Android, iOS, and Web.

Other Projects
- BoxIt: A Flutter-based multiplayer dot connecting game using Websocket server.
- Toy-Neural-Network: A neural network library written from scratch for better understanding of 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.