

Siddharth Tyagi

LinkedIn: [linkedin.com/siddharhtyagi1004](https://www.linkedin.com/siddharhtyagi1004)

Github: github.com/Siddharth903

Email: siddharhtyagi004@gamil.com

Mobile: +91-9178955940

EDUCATION

- Vellore Institute of Technology** Bhopal, India
Bachelor of Technology - CSE with Cloud Computing & Automation; GPA: 8.64 August 2021 - Ongoing
- Joseph & Mary Public School** Delhi, India
CBSE - Class XII; 76.8% June 2020
- Joseph & Mary Public School** Delhi, India
CBSE - Class X; 66.6% May 2018

SKILLS SUMMARY

- Languages:** C++, Python, SQL, MATLAB, BASH
- Frameworks:** TensorFlow, Keras, Flask, MATLAB
- Platforms:** Visual Studio, Visual Studio Code, Anaconda, AWS, Oracle
- Courses:** Operating System, Computer Networks, DBMS, Data Structures, AI&ML

PROJECTS

- Harvestify** *Siddharth903/Harvestify*
 - Python, TensorFlow, Keras, Anaconda*
 - Harvestify Crop Detection Model:** Engineered a precise crop detection system using machine learning, elevating agricultural yield predictions by 20%.
 - Image Segmentation:** Developed deep learning-based image segmentation to identify crop regions, enhancing detection accuracy by 25%.
 - Feature Extraction:** Developed innovative feature extraction techniques to differentiate crop species, boosting model precision by 30% and improving overall system reliability in diverse farming environments.
 - Scalability:** Overhauled model architecture to support real-time analysis of large-scale agricultural datasets; ensured scalability and boosted data processing efficiency by 35%, facilitating timely insights for stakeholders.
- Student Tracking System** *Siddharth903/STSystem*
 - Python, CV2, TensorFlow, Keras, Visual Studio*
 - Student Tracker System:** Engineered a machine learning model for real-time student tracking, enhancing attendance accuracy by 30%.
 - Face Recognition:** Deployed a state-of-the-art face recognition algorithm, achieving 95% accuracy in identifying students.
 - Data Integration:** Integrated multiple data sources to create comprehensive student profiles, refining tracking precision.
 - Scalability:** Designed the system to handle large-scale deployments, supporting over 10,000 students concurrently.
- CUDA RGB to Grey Scale** *Siddharth903/CUDA Scale*
 - Dart, Flutter, Flame, Tiled*
 - CUDA RGB to Grayscale Model:** Designed a CUDA-based model for converting RGB images to grayscale, achieving a 40x speedup compared to CPU implementations.
 - Parallel Processing:** Leveraged CUDA parallel programming to process high-resolution images in real-time, boosting throughput by 50%.
 - MakeFile and Bash Automation:** Automated the build process using MakeFile and Bash scripts, slashing deployment time by 70%.
 - Scalability:** Optimized the model for scalability, processing batches of over 1000 images concurrently.

CERTIFICATIONS

- Oracle JAVA Foundation** *Certificate*
 - Passed the Oracle (1Z0-811) - 71%*
- AWS Certified Solutions Architect** *Certificate*
 - Passed the AWS (SAA-CO3) exam with a score of 965 / 100*
- Oracle OCI Generative AI Certified Professional** *Certificate*
 - Passed the Oracle (1Z0-1127-24) - 92.5%*

ONLINE JUDGE

- Codeforces** *Link to Profile*
 - Solved 98 problems on Codeforces as of 25/7/24*
- LeetCode** *Link to Profile*
 - Solved 290 problems on LeetCode as of 25/7/24*

POSITIONS OF RESPONSIBILITIES

- Winner of Science Exhibition (Chemistry) Class 12th.
- 3 times Student of the Month Award.
- Winner in Go Green Competition.Plant (resurrection fern).