

Debankur Ghosh

ghosh_debankur@yahoo.com | +91 9867738810 | Mumbai, India | [LinkedIn](#) | [GitHub](#) | [debankur-ghosh.github.io](#)

Career Objective

To pursue a job opportunity in a competitive environment that will challenge me to push my boundaries and expand my knowledge in the field of computer science while allowing me to add value to the dynamics of the company.

Academic Qualification

- **KC College of Engineering and Research, Thane (aff. University of Mumbai)** 2017 – 2021
Degree: Bachelor of Engineering | **Majors:** Computer Engineering | **CGPA:** 8.14
Advanced Topics: Machine Learning, Network Security, Cryptography and Block Chain Technology, Algorithms, Data Structures and Data Mining.

Experience

- **lotiot.in (internship), Pune** 01/2020 – 10/2020
Worked on an artificial intelligence project to track and re-identify people in a crowd with OpenCV and Aligned Re-id using TensorFlow2 libraries.

Technical Skills

- **Proficient:** C, C++, Python and SQL
- **Libraries:** Keras and TensorFlow
- **Software:** Git, CUDA, MATLAB and Apache Spark

Projects

- **Face mask detection program** 08/2020 – 09/2020
It is a face mask detection system built with OpenCV, TensorFlow using Deep Learning and Computer Vision concepts in order to detect face masks in static images as well as in real-time video streams.
- **Facial expression recognition program** 03/2019 – 05/2019
Developed a facial expression recognition model using keras. Built and trained a CNN and then deployed the trained model to a web interface using Flask.
- **Gesture based pattern recognition program** 01/2020 – 04/2020
It is a machine learning model which can recognize patterns (English alphabets only) in 3D space and interpret the pattern with an accuracy of 87%.
- **ASL bi-lingual translator** 06/2020 – present
It is an ASL to English bi-lingual translator software which can be used by speech impaired people to communicate easily and help others understand ASL patterns.

Academic and Scholastic Achievements

- Mumbai region Gold medalist in Science Olympiad Foundations' National Cyber Olympiad 2016
- **ACM-ICPC** preliminary participant. 2017
- **ACM-ICPC** Kolkata-Kanpur on-site regionals participant. 2019

Organizations

- **Computer Society of India (CSI)** 2017-present
- **TEDx**
TEDxKCCEMSR Assistant Curator 08/2018-02/2019

Personal Projects

- 'mrchat.tk' an anonymous peer to peer chat website.
- Performing Real-Time Object Detection with YOLOv3.
- Predicting Stock Market Prices with Regression.
- Finding approximate solutions of Travelling Salesman Problem (TSP) using techniques like hill-climbing.
- Real time face mask detection program using CNN.
- Solving sudoku puzzle using A*-search algorithm.
- Chess Classic: Designed a chess AI engine using mini-max algorithm with alpha-beta pruning in Racket.
- Facial Expression Recognition using Keras.

The files and folders for all the projects are available on my GitHub.