# Akshata Salunkhe

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## Summary

I am an aspiring student eager to dive into coding problems. I am passionate about problem-solving and I have effective communication skills. I am team player and self motivator to new challenges.

## Skills

- **Software and Technology**: Object Oriented Programming(OOP), Data Structures and Algorithm(DSA), Data Base Management System(DBMS)
- **Programming Languages**: C, C++, MATLAB, Python.
- **Libraries and Enviornments**: : Numpy, Pandas, Microsoft Visual Studio, Windows, OpenCV

## Education

**MKSSS Cummins College of Engineering** Pune, India

*Bachelor of Technology in Engineering:* | ***SGPA: 9.2/10*** | ***CGPA: 8.4/10*** *August 2017 - May 2021*

**A D Joshi Junior College** Solapur, India

*HSC| Vocational Course: Computer Science* | ***Percentage 86.92/100*** *July 2015 - May 2017*

## Experience

**Tech-Port Solutions, Pvt. Ltd.** Pune, India

*Engineering Intern: Automation* *May 2019 - July 2019*

- Analysis of IoT based Home automation system.
- Analyzed the process performance of automation system required for industries.
- Learned about the sensors and interfacing of hardware and software
- Developed IoT based collision avoidance car system.

## Courses and Training

- Flip-kart GWC 3.0 | Training March- May 2021
- Crash Course on Python(Google)| Coursera | Certified

## Projects

**Map visualization using Dijkstra's algorithm | Internal project** April 2019

- Used Design patterns and Object Oriented techniques to develop the code for more robust code.
- Developed C++ code to implement the Dijkshtra Algorithm for computing single-source shortest paths.
- Developed a class to generate the graph and apply the algorithm.

**Hotel management system| Internal Project** January 2019

- Project aims on designing a sequential service provider system to reduce the time.
- Implemented object-oriented techniques in C++ to take the information serially and give service accordingly.
- Developed a class for hotel menu and user data and member functions to update and complete, tasks and orders by using queue in data structure.

**Static Hand gesture and Face recognition| BE project**

*Guidance- Prof. Kalpana Joshi* *March 2020*

- Projects aims to design a system that helps disable people to interact with computers and increase the Human Computer Interaction ratio(HCI).
- Implemented the technologies available in the Open Computer Vision (OpenCV) library and methodology using Python.
- Implemented Haar Cascade features for face detection and developed Local Binary Pattern Histogram algorithm for face recognition.
- Developed a vision based hand gesture recognition using Convex Hull.

**Speaker Crossover System| Digital Signal Processing**

*Guidance- Dr. Ashwini Deshpande* *April 2020*

- Comparative study and design of a different filter based on stability and project objective
- Analysed windowing methods and stability of designed system and also applied the Hamming and Blackman
- Performed observation of designed system with a general user interface (GUI) in MATLAB

**Smart street light| MINI project** March 2020

- Projects elaborates the design and construction of automatic light control system and also check the status remotely.
- Coordination of IR and LDR sensor controlled by Arduino and implemented cloud using ESP8266

## Interests

- Badminton | Reading | Writing articles | Painting | Piano.