



DHAVAL BAGAL



ABOUT ME

Date of Birth: April 9, 1999

Age: 20

Gender: Male

Birth Place: Mumbai, India

CONTACT



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INTERESTS

Teaching

Photoshop and editing

Coding

HOBBIES



EDUCATION

Bachelor degree: Vivekanand Education Society's Institute of Technology, University of Mumbai, Maharashtra, India

GPA: 9.51/10.0

HSC: 89.38%

SSC: 93%

MAJOR PROJECTS

Android based Pothole Detection System: A system which lets users report potholes by clicking their pictures wherein the dimensions of the potholes are calculated and stored. The application is also capable of displaying the real-time conditions of the roads.

Smart Library System: The system entails face recognition and QR code detection for self issue/return of the books. It provides real-time location of the books just by using the feed from the cameras.

A.I Assistant for the blind: A handy, internet-less, independent, low-cost device that assists a blind person in some of his important chores like currency recognition, text recognition, color identification etc.

Association mining using Parallel Computing: The project employs the map-reduce concept for Association rule mining using Apriori algorithm. Given a set of products, the system returns the associations among them along with their confidence values.

Color based Object Segmentation: In this project with K-means clustering, pixels with almost similar colors are grouped into the same cluster, thereby segmenting the image.

Basic 8-bit Processor with a 32KB of RAM: The processor uses a data bus of 8-bits, an address bus of 5-bits and a RAM of size 32KB along with 2 general purpose registers. The ALU within the processor is capable of performing arithmetic and bitwise operations.

TECHNOLOGY STACK

Android Studio, Python OpenCV, Python Flask, Firebase, Google Maps API

Python OpenCV, ZBar framework, Firebase

Raspberry Pi 4, Python OpenCV, YOLO framework, Raspberry Pi GPIO programming

PySpark in Cloudera distribution

OpenCV, sklearn, numpy libraries in Python

Logicly circuit simulator

CURRICULAR AND CO-CURRICULAR ACHIEVEMENTS

- Stood **first** in the entire department for the subject "**Structured Programming Approach**" (2016-17)
- Reached **semi-finals** of "**Project DeepBlue (A Mastek and Majesco Initiative)**" (2018-19)
- Stood **first** in the entire department at "**Buzzpro Technical Paper Contest 2019**"
- Stood **second** in the entire department at "**Pradarshan 2019 (Project Exhibition)**"
- Got connected with the **National Association for the Blind, India (NAB)** and delivered the first prototype of the final year project
- Successfully completed a 11 weeks course on "**Machine Learning by Andrew N.G.**" provided by Stanford University (2019)

RESEARCH AND PUBLICATIONS

- Presented paper titled "**Librany - A Face Recognition and QR code Technology based Smart Library System**" at ICCES 2019

EXTRA-CURRICULAR ACHIEVEMENTS

- Worked as a **coordinator** at the college **ISTE chapter** during my sophomore year (2017-18)
- Successfully completed **102 hours of volunteering** from **August 8, 2018 to December 14, 2018** at the **Akanksha Foundation**. Taught students from 9th to 12th grade.