

# Shubharthak Sangharasha

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I am a senior (4th year) doing Bachelors in Computer Science with specialization in Machine Learning and Artificial Intelligence. I have been exposing myself to different Programming Languages (Python, C++, C, Ruby to name a few) as well as frameworks and libraries in fields like Computer Vision (OpenCV, CNN), NLP, LLMs, LangChain, Speech Recognition, systems like TTS, Audio processing and many other ML concepts along with web & cloud technologies like AWS to be able to deploy them for real-world use.

## EDUCATION

### B.E. in Computer Science and Engineering (AI / Machine Learning)

Chandigarh University, Punjab, India

2020 - Present

CGPA: 8.43

#### Courses

- Deep Learning
- Natural Language Processing
- Database Management System
- Artificial Intelligence
- Machine Learning
- Data Structures
- Algorithms
- Operating System

### 12th (Senior Secondary), CBSE Board

NP Co-ed, Lodhi Estate, New Delhi-110002

2020

81.5 %

## PERSONAL PROJECTS

### Apsara AI - Rule Based Voice Assistant

- Designed and Developed using Python and various integrations such as gTTS, Spotify, smtplib, speech recognition etc.
- Capabilities includes understanding and action-ing upon the commands like play songs on Spotify, read news, schedule calendar meetings, connect Bluetooth, search Wikipedia, set an alarm, and send/read emails, find the phone and many more.

### Dynamic Volume Controller through Hand gestures using OpenCV

- Built using Google's open-framework Mediapipe which enables to estimates 468 3D faces and hand landmarks in real-time.
- Allows to adjust the volume of the computer just by using hands.
- Enables dynamic adjustment of the volume depending on distance of person from the laptop.

### Face Mask Detection Using Transfer Learning and Computer Vision

- Detects whether the person is wearing a mask or not (with multi-faces in the image enabled as well), trained using Tensorflow & MobileNetv2 architecture.
- Includes additional functionality to notify the admin through e-mail if mask enforcement is not followed and mask not work for 30 seconds.

### Email Fixer using LangChain

- Streamlit app powered by LangChain LLMs to fix the language of the email

## WORK EXPERIENCE

### Backend Web Development Intern

Curve Tomorrow

06/2022 - 08/2022

Melbourne, Australia

#### Achievements/Tasks

- Implemented a User Log System for auditing purposes
- Added a CMS (Content Management System) to enable admins to add/edit pages without developer's involvement thereby reducing turn-around time from days to minutes
- Collaborated with team members globally

## SKILLS

OpenCV

LangChain

Computer Vision

MySQL

Unix

Git

Selenium

Big Data

Ruby on Rails

PyTorch

HTML

Data Structures and Algorithms

CSS

Pandas

Web Scrapping

Flask

NumPy

AWS

NLP

Cloud Technologies

Prompt Engineering

TensorFlow

## CERTIFICATES

### Machine Learning

<https://coursera.org/share/1294fa1e24daee886fc3f78e98f2af05>

### Supervised Machine Learning: Regression and Classification

<https://coursera.org/share/7786d9473b22025295f2812f7c53f6d1>

### Advanced Learning Algorithms

<https://coursera.org/share/77a638b3c1b2638ef7ba75e378320859>

### Linux Fundamentals

<https://coursera.org/share/fac7c010104b002709d1c13a86380e29>

### Crash Course on Python

<https://coursera.org/share/ac00638a5fb7fc2bd291014f14bd09c8>

### Using Python to Interact with the Operating System

<https://coursera.org/share/0c0cc7ea3f177ef7edc49ea99e9d206b>

### Introduction to HTML5

<https://coursera.org/share/dcbbd2fd87f2657d037d2d600fc73c78>

## PROGRAMMING LANGUAGES

Python

C++

C

Java

JavaScript

Ruby