

EDUCATION

Guvi Geeks, Chennai
Master Data Science Program

Apr 2022 – Oct 2022

AMS College Of Engineering, Chennai
Bachelor Of Computer Science

Aug 2016 – Apr 2020

SKILLS

Machine learning

Python

Computer Vision

NLP

AI

Deep learning

Tensorflow/Keras

Pandas

Web Scraping

Scikit

My SQL

Data Analysis

Flask

Pyspark

Streamlit

PROJECTS/EXPERIENCE

Face Mask Detection

- Developed an image classification model using **MobileNet** as a base, with additional fully connected layers added to classify whether a person in an image is wearing a face mask or not .
- The trained model achieved an accuracy of **100%** on the training data and **98%** on the validation data within 10 epochs.
- Implemented face detection using OpenCV's **Haar cascade** classifier model to detect human faces from a live webcam feed.
- Utilized the trained classification model to classify the presence of a face mask in the detected faces.
- Then displayed a rectangle using **x & y** coordinates along with text '**mask on or off**' with unique color for each label based on the results predicted by the trained model.

CONVERSATIONAL CHATBOT

- Crafted and integrated a conversational **chatbot** that swiftly responds to user inquiries by accurately identifying the **tag** of the text data.
- created a JSON file, partitioned with curated selection of tags, queries, and responses. Utilized **bag of words** techniques to train an Artificial Neural Network (**ANN**) on the text corpus, achieving a flawless accuracy of **100%** within 200 epochs.
- Utilized the pre-trained model to predict the results of new text data, successfully identifying the tags and pulling the appropriate response from the JSON file.
- Constructed a user-friendly conversational application with help of **Tkinter**, enabling seamless communication between the user and the bot

CERTIFICATIONS

- IIT-Madras** Certified Advanced Programming Professional & Master Data Science.

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LANGUAGES

- ENGLISH [Professional Proficiency]
- TAMIL [Native/Bilingual Proficiency]
- HINDI [Limited Professional Proficiency]

INTEREST

- ARTIFICIAL INTELLIGENCE
- BIG DATA
- CLOUD COMPUTING