**Project Documentation -:**

**Introduction-:**

This project is about Profession classification which will classify people images according to their respective professions. I have involved only three categories to make it easy for me to handle. The model will take an image classify its category.

**Project Scope-:**

The project features include training data on which the model is trained and moreover it have a Convolutional neural network on which training data is inserted and network train itself on the basis of data.

**Training Data -:**

All of the training data I used in my project is being downloaded in the form of pictures from google I have downloaded about 150 images of each category for training my data after downloading images I excluded the images which had noise or have any watermarks etc in it.

**Libraries -:**

from tensorflow.keras.preprocessing.image import ImageDataGenerator

from tensorflow.keras.preprocessing import image

from tensorflow.keras.optimizers import RMSprop

import tensorflow as tf

import matplotlib.pyplot as plt

import cv2

import os

import numpy as np

Following are the libraries I imported and used in my project. Firstly I installed **numpy,keras, matplotlib, tensorflow** in my device

**Code-:**

For code I have seen various tutorials from youtube and collected code from that and used it in my project and after understanding what are the requirements of my project I added several activation functions in my project from keras.