

AMOGH J TAMBAD

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Objective:

With a deep passion for learning, I seek to work relentlessly towards helping the society through the medium of technology and programming. I would like to enhance my knowledge, skills and technique in order to achieve both organisational as well as personal goals.

Projects

1. Mask Detection using CNN and OpenCV

Used CNN and to make a Machine Learning model that can detect whether a person is wearing a mask or not. Used Pytorch as Deep Learning framework and OpenCV for face detection and real time test data.

<https://medium.com/@amoghtambad/mask-detection-using-resnet-and-opencv-67a501c420e0>

2. Forest Fire Detection Using CNN

Made a Machine Learning model using Convolutional Neural Networks that is able to detect forest fires using satellite images. Used Pytorch as Deep Learning framework and fastai for Web Scraping and cleaning of dataset.

Published a technical paper in the Test Engineering and Management section of SCOPUS Indexed Journal for the same.

<http://www.testmagzine.biz/index.php/testmagzine/article/view/8282/6266>

3. Driver Drowsiness Detection System

Using OpenCV, a package for computer vision, I made a working prototype of a 'Driver Drowsiness Detection System' that is used to alert and wake up the driver in case he/she falls asleep while driving. I have also added an additional feature that detects when the driver is yawning so that the driver can be alerted saying he/she needs to rest before proceeding.

<https://github.com/Ajtambad/Driver-Drowsiness-Detection-System-OpenCV-/blob/master/eye.py>

Skills

1. Programming Languages

Python, C, C++ .

2. Operating System

Fedora, Windows, Ubuntu

3. Machine Learning

Pytorch

4. Data Science

Pandas, NumPy, Matplotlib, Seaborn

Achievements

1. Obtained 2nd place in ‘Jeeva Samarakshak Hackathon - 2020’, a hackathon organised by REVA University to fight Covid-19.
2. Have been a part of TEDxREVAUniversity and Under25Reva’s social media management team.
3. Participated in Google’s coding competition ‘Code Jam’ and passed the Qualification round. Used Python as the programming language to solve these problems.

Education

Year	Degree	Institution	Score
2015	CBSE 10 th standard	Kensri School	9.4 CGPA
2017	II PUC	Presidency PU College	82.8%
2021*	B.Tech(Computer Science)	REVA University	8.9 CGPA

*Yet to complete the 4 year course and obtain the degree.