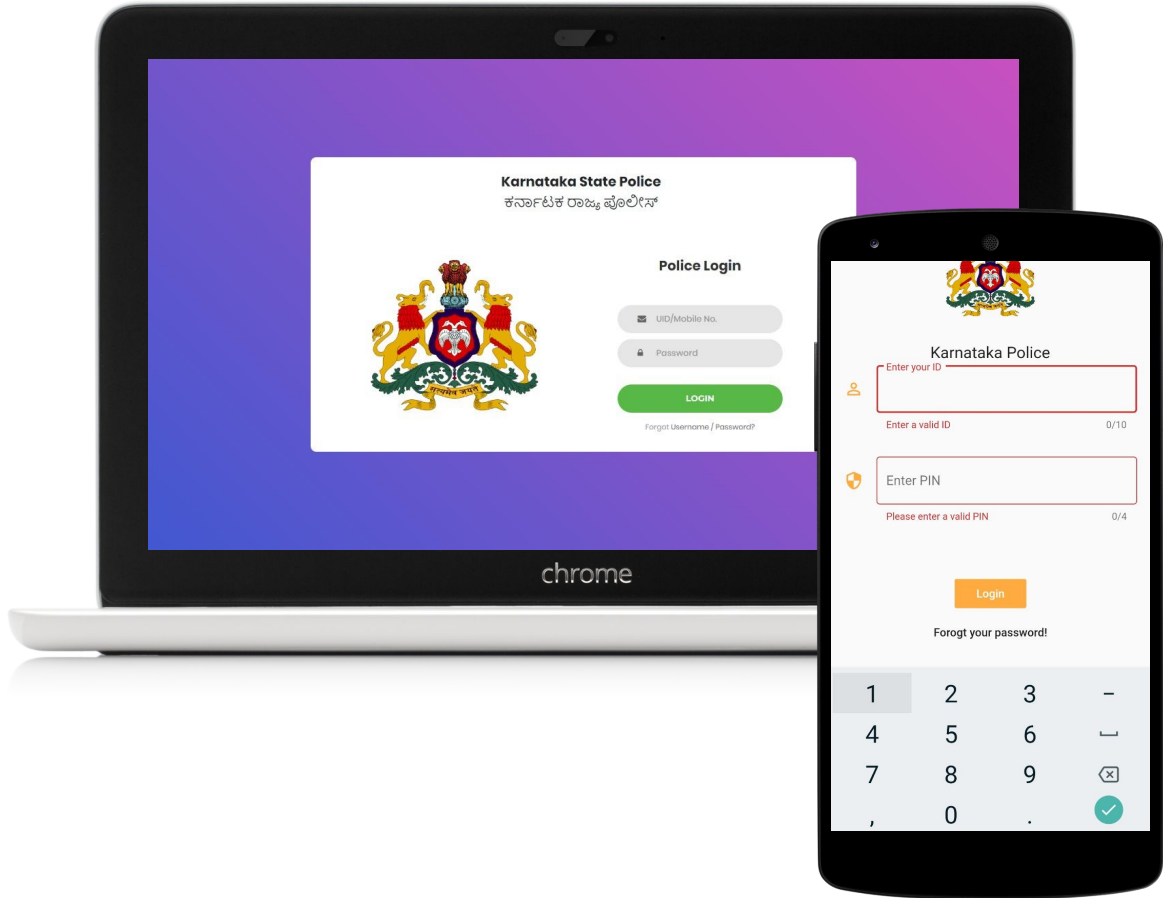


Project-Facial Recognition

Code Knight

Facial Recognition

- According to Quartz India, Everyday 400 women and children go missing in India and many remain untraced. This is one of the main issue that is needed to be dealt on priority basis.
- The solution is for the problem of getting details of missing person by using concept of Machine Learning and image processing algorithm.



Approach

- The solution is designed in a manner to search the image of the missing person on various provided open source database and return it to the user with effective close matches.
- The solution is also planned to extend its boundaries from searching for the person on provided databases to monitoring and performing real time searches on basis of surveillance camera and raising the alert if the person on camera matches with one on the database. Apart from missing persons it also deals with finding suspicious individuals and getting details of unclaimed dead bodies as well.



Workflow



```
graph LR; A((Upload photo)) --- B((Encode the given photo to match for the facial accuracy with the encoded data in database.)); B --- C((The matches with accuracy greater than threshold are grouped.)); C --- D((Display the result of outcome.))
```

Upload
photo

Encode the given photo to
match for the facial
accuracy with the encoded
data in database.

The matches
with accuracy
greater than
threshold are
grouped.

Display the
result of
outcome.

Technologies Involved

The following technologies are incorporated in development of the system.

- Python
- Face Recognition Library
- OpenCV
- Flutter
- HTML/CSS/JS