DOMAIN: ML

PS 1: VIDEO KYC APPLICATION

THE IRREGULARS

Esha Ghorpade
Nitisha Pradhan
Rahul Pal
Ashutosh Pandey

PROBLEM STATEMENT

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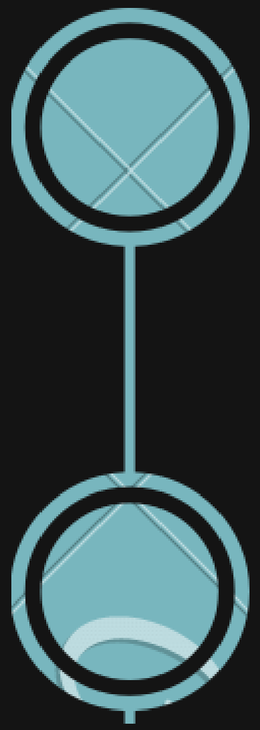
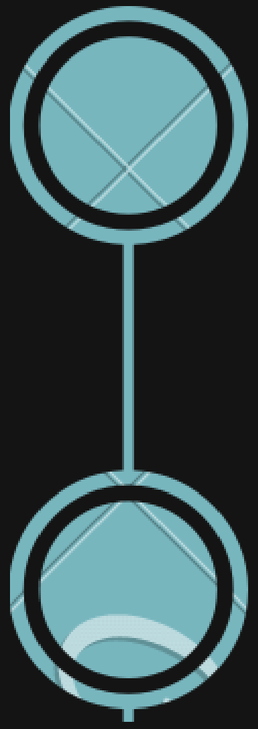
- Earlier KYC verification was done in person, but due to COVID-`9, banks are trying to implement a way to perform KYC virtually.
- Your task is to create a web application in which user will upload the government documents.
- The ML model will try to perform some type of verification and verify that the person uploading those documents is a legit user.

OUR APPRAOCH



Upload details, recent photo of user and scanned copy of PAN Card.

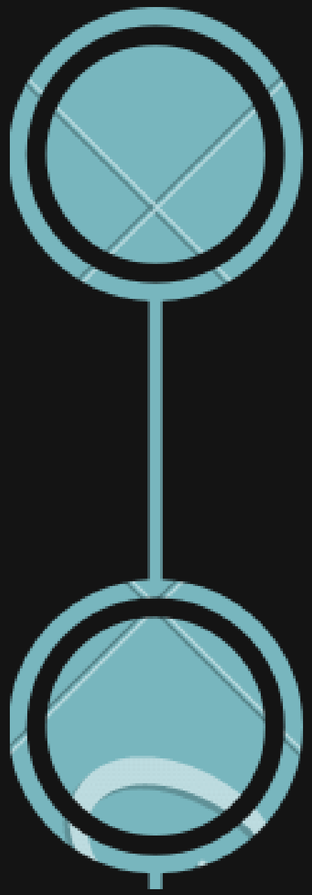
Capture image of the person uploading documents via webcam.



Extract photo and text details from PAN Card.

To validate document:

- Extract Government official text and compare.
- Compare extracted text data from PAN Card with the one user provided.



To validate User:

- Compare the similarities between the uploaded photo, extracted photo (from PAN) and captured photo from webcam.

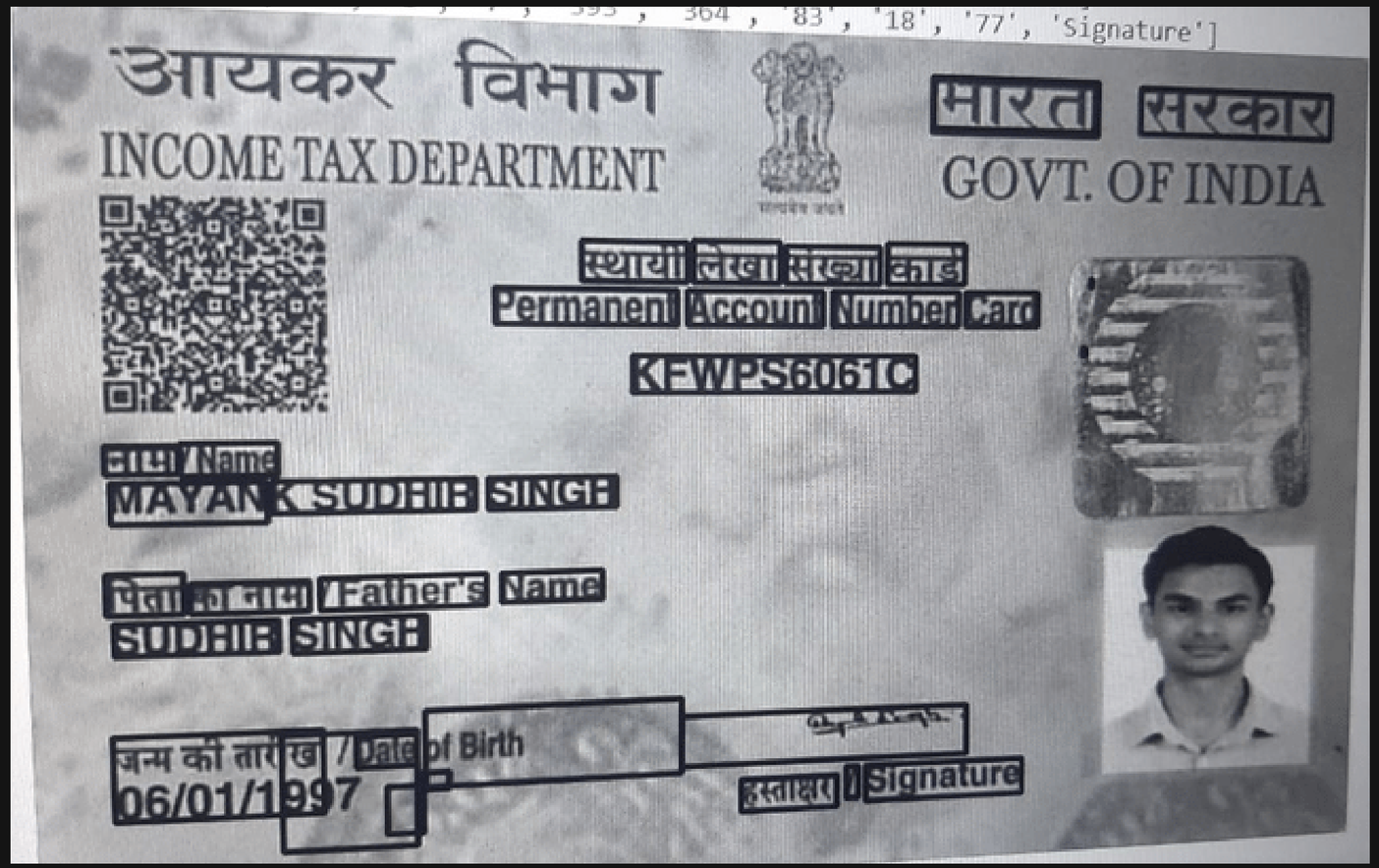
Return the final validation message

TECH AND FRAMEWORKS USED

- Machine Learning:
  - Tensorflow and Keras on Google Colab
- Web App:
  - Flutter 2.0 [web]
- REST API:
  - Flask
- Web hosting:
  - Heroku

WORKING


आयकर विभाग
INCOME TAX DEPARTMENT
भारत सरकार
GOVT. OF INDIA
D MANIKANDAN
DURAISAMY
16/07/1986
Permanent Account Number
BNZPM2501F
Signature
04082011
[12] cv2_imshow(crop)


['364', '83', '18', '77', 'Signature']
आयकर विभाग
INCOME TAX DEPARTMENT
भारत सरकार
GOVT. OF INDIA
स्थायी लेखा संख्या कार्ड
Permanent Account Number Card
KEWPS6061C
नाम / Name
MAYANK SUDHIR SINGH
पिता का नाम / Father's Name
SUDHIR SINGH
जन्म की तारीख / Date of Birth
06/01/1997
हस्ताक्षर / Signature

THANK YOU