Project: Person Identity Verification using OCR and Machine Learning Techniques

1. Objective

Design and Developing a web application for personal identity verification . In this application identity of person scanned through a camera or device and information is extracted from this document. The extracted information has to be cross matched with details in our hand. Through Proofing it can ensure that applicants are who they claim to be.

Advantages

Various Service providers like government, telecom and other sectors can leverage identity verification technology to

* Improve operational efficiency
* Reduce identity fraud
* Adapt to local regulations and business needs

2. Features

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| SI.NO | FEATURES |
| 1 | REMOTE ID CAPTURE |
| 2 | EXTRACTING INFORMATION |
| 3 | TEMPLATE MAPPING |
| 4 | AUTOMATIC FORM FILLING |
| 5 | CROSS MATCHING DOCUMENT |
| 6 | VERIFICATION MESSAGE |

1.Remote ID Capture

Document capture is done by providing real-time indications to user to help them to scan their ID with device camera .The device camera enables the capture of identity document data by taking a picture or simply uploading the documents.

2. Extracting Information

From captured image the data is extracted through optical character recognition algorithms.

Optical Character Recognition (OCR) is a technique of reading or grabbing text from printed or scanned photos, handwritten images and convert them into a digital format that can be editable and searchable.

OCR has plenty of applications in today’s business. A few of them are listed below:

* Passport recognition in Airports
* Automation of Data Entry
* License plates recognition
* Extracting business card information into a contact list
* Converting handwritten documents into electronic images
* Creating Searchable PDFs
* Create audible files (text to audio)

Some of the Open Source OCR tools are Tesseract, OCRopus

3. Template Mapping