**Machine Learning based Aadhar Card and driving license data extraction in database**

**INTRODUCTION**

* Aadhar and driver's license area unit getting used to unambiguously establish someone and is additionally used as address proof, proof of family etc
* Computer vision field has been popular to solve several problems such as: 1 recognizing faces 2 recognizing emotion, 3 recognizing places , 4recognizing objects etc.
* OCR primarily based Aadhar & driver's license data Extraction System is convenient and price economical because it is machine-controlled.

**OBJECTIVE OF PROKECT**

* Our Project implement OCR integrated with Document classification in it.

**EXISTING SYSTEM**

* OCR primarily based info Extraction System are enforced exploitation proprietary technologies like MATLAB that are pricey and not economicalinfo
* This closed approach conjointly prevents any analysis and development of the system at a reasonable worth from several free sources.

**PROPOSED SYSTEM**

* In India, basically, there are two kinds of most used ID Proof, Aadhar Card and Driving License. Our proposed system is to show that free and open source technologies are matured enough for scientific computing domains. Also, we have implemented noise reduction techniques to increase more accuracy in detection of information

**ADVANTAGES**

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**OPENCV :-**

* OpenCV is the huge open-source library for the computer vision, machine learning, and image processing.
* By using OpenCV, one can process images and videos to identify objects, faces, or even handwriting of a human.

**PYTESSERACT:-**

* Pytesseract is a wrapper for Tesseract-OCR Engine.
* Tesseract is used in conjunction with an external text detector to recognize text from an image of a single text line and recognize text within a large document

**SQLITE:-**

* SQLite is used to create a database,
* SQLite is a "zero-configuration" database engine.
* Programs that use SQLite require no administrative support for setting up the database engine before they are run.

**CONCLUSION**

* Aadhar & Driving License Information Extraction System will give the accurate information available in the images that are used as inputs for this software.
* The data extracted from this software is stored in SQLite database

**FUTURE SCOPE:-**

* System can store all the extracted information according to fields that are present on Aadhar and driving license. Similarly, this can be used to fill forms in institutions in which forms filled manually from the hard copy.

**LIMITATION:-**

* The System needs a clear image of the Aadhar Card of the Student to work, Although this limitation is very easy to solve by using any general Scanners.