PYTHON PROJECT

PROJECT NAME: FAKE NEWS RECOGNITION

SUBMITTING TO:

Ms. Mallika Srivastava Trainer, Programming & Algorithms, Eisystems Services

SUBMITTING BY:

Aakanksha Mourya Btech.CSE Bundelkhand University, Jhansi

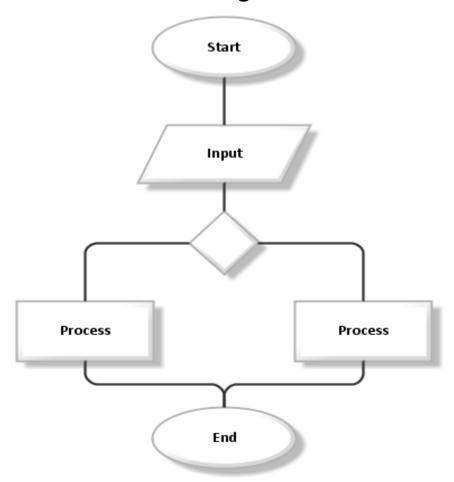
Serial No.	Title	Page No.
1	Cover Page	1
2	Content Table	2
3	List Of Figures	3
4	Abstract of projects	
5	Project Summary	
6	Objectives Of Projects	
7	Details Of Project Developed	
8	System Requirement Used	
9	Data Flow Diagram	

10	Input output dataset	
11	Text Code	
12	References	

1. Details of project Developed:

Project is based on Machine Learning. Machine learning is a branch of Al and computer science which focuses on the use of data and algorithms to imitate the way that humans learn, gradually improving its accuracy.

2. Data Flow Diagram:



Abstract Of Project

This paper presents the development of an intelligent certificate verification system for fraud detection using machine learning technique. The research was

embarked upon after noticing the rate of document forgery in the Nigerian society. Thus an exhaustive review of literatures was made which identified the

challenges public and private institutions encounter due to lack of automated means to verify any legal document. The flaws in the conventional verification system such as delay time, cumbersome, high cost, lack of intelligence and above all, not being reliable; have been exploited over the years by fraudsters to

fabricate fake documents such as certificates mostly and commit fraud. This research seeks to address the problems via the development of a machine learning

based verification system and localizing it for the verification of certificate at the Nnamdi Azikiwe University (Unizik), Awka, Nigeria. To achieve this, the

methods of data collection, data acquisition, data processing, feature extraction, artificial neural network, training, and classification were used. Self defining

equations and modeling diagrams were used to develop the artificial neural network model and then train with 1180 authorized data collection of Unizik

certificates from 2016 to 2020, to generate the reference verification model which was used to develop the expert system for verification of documents. The

system was implemented using image acquisition toolbox, image processing toolbox, statistical and feature extraction toolbox, neural network toolbox, Matlab

and then tested for evaluation. The result recorded however, achieved a Mean Square Error (MSE) performance of 0.000100Mu and Regression value of R=

0.99373 which is very good, with implication that the new system is very reliable.

Project Summary

The study has successfully presented an intelligent system for the verification of documents using artificial intelligence technique. This was done to combat the increased fraud and the rate at which documents are fabricated and manipulated all over the world today for many selfish reasons, in order

to gain wealth, fame, employment, among others. This study collected data from the bursary department, Unizik; and then developed an intelligent

document verification algorithm and deployed as an expert system using Matlab. The system was tested and the result showed hi gh rate of verification

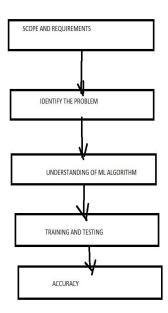
regression and MSE performance. The implication is that when deployed, it was able to recognize and verify results accurately.

Objectives Of Project

- 1. Digital certificate that adopts digital signature technology provides the authority to validate the user himself in the digital fields used to validate the identity of a user and the authorisation to access the network resources.
- 2. This provides employers with clarity to check workers' educational credentials during the recruiting process and saves time for the review of educational documents.

Details Of Project Developed

The software that we implement first scanned the QR-code of the document and the sign, stamp and logo of the document using Image processing techniques in deep learning. The Image Processing Module basically includes of two parts: Error Level Analysis and NeuralNetwork. These parts in combination help to detect whether the document image is manipulated by any means ornot. Deployment phase of the system is the main part that is how the system is to be used in the real life.

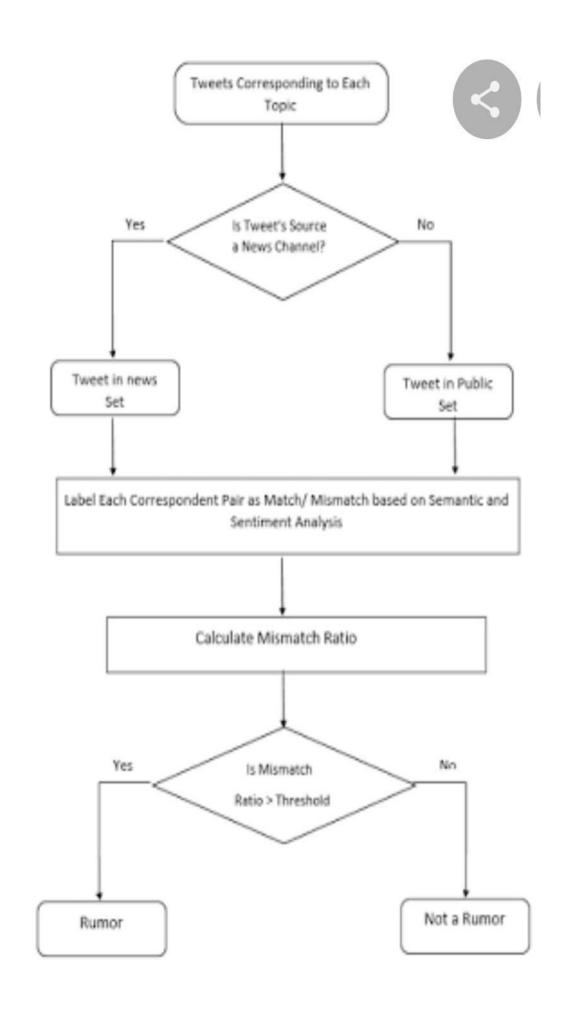


Details Of Project Developed

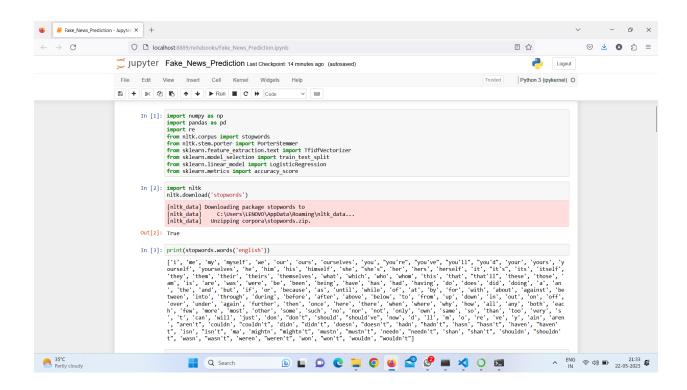
SYSTEM REQUIREMENT USED:

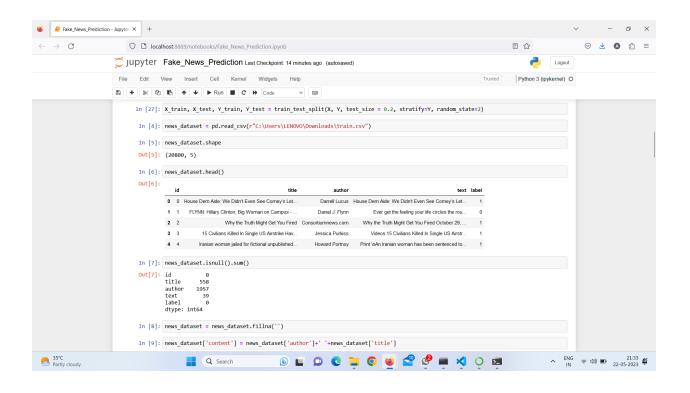
1.WINDOWS 11

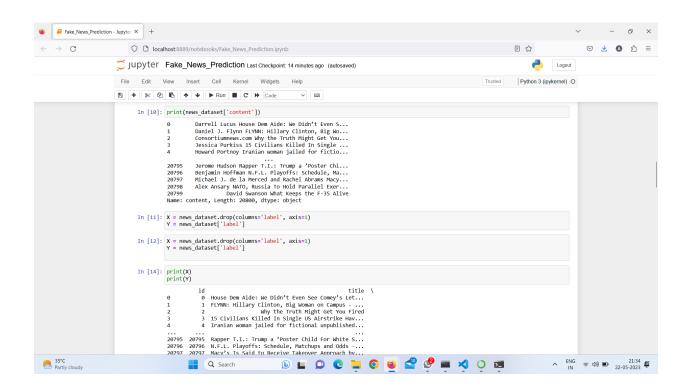
Data Flow Diagram Algorithm

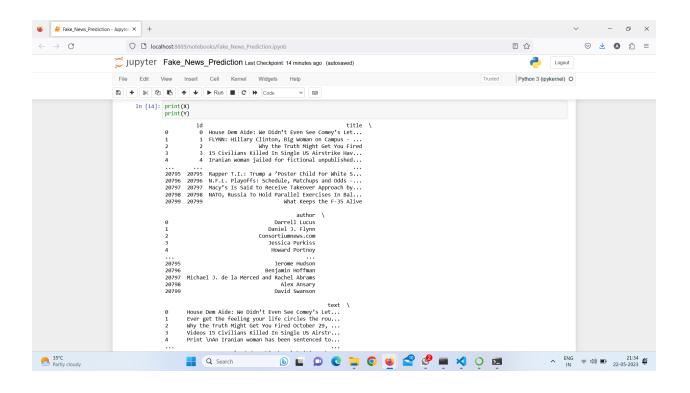


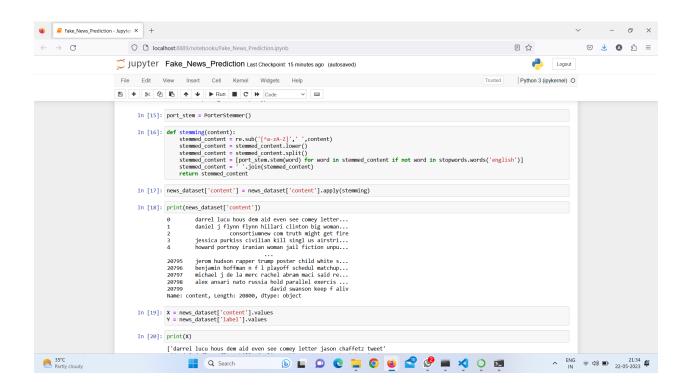
Text Code:

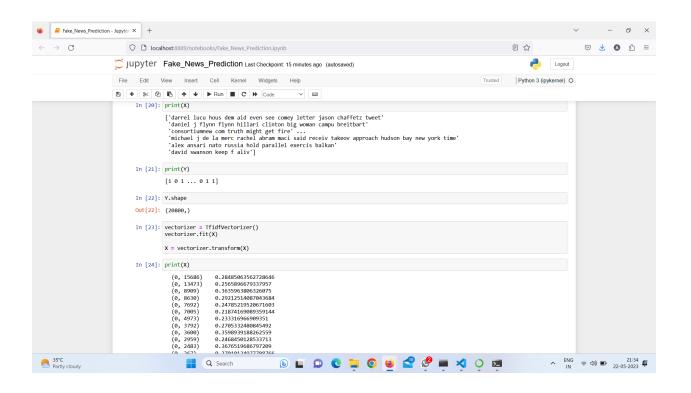


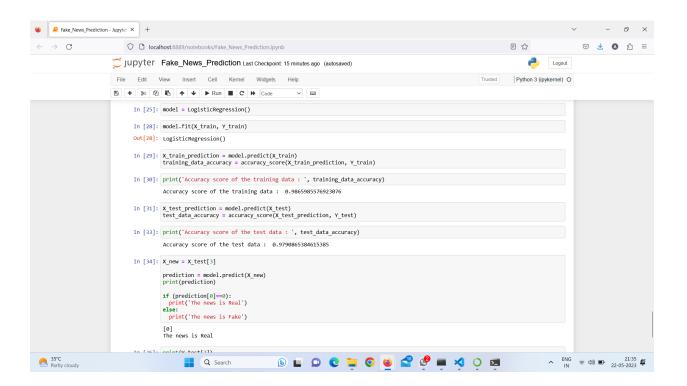


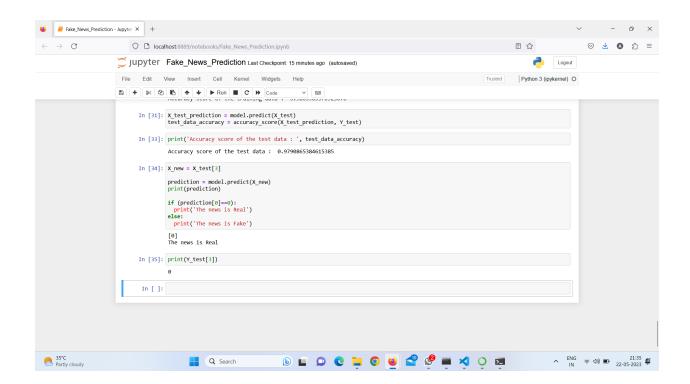












References:

- Kaggle
- Medium
- wikipedia