Fake News Detection Using NLP

Introduction:
Fake news spreads fast on the internet. In this project, we used Machine Learning and Natural Language Processing (NLP) to identify whether a news article is real or fake.

Tools Used:
Python, Pandas, NLTK, Scikit-learn, TF-IDF, Logistic Regression

Methodology:
- Uploaded two datasets: Fake and Real
- Added a label column: 0 = fake, 1 = real
- Combined and cleaned the text (lowercase + stopwords removal)
- Converted text to vectors using TF-IDF
- Trained a Logistic Regression model
- Evaluated the model using accuracy and classification report

Conclusion:
Our model accurately classifies news articles as real or fake using simple NLP techniques. This project shows the power of machine learning in detecting misinformation.