Documentation for Web app

Objective

This project builds a machine learning web application that classifies tweets or headlines as Fake or Real news using NLP and a trained classifier.

Folder Structure:

```
Web app/
├── app.py
├── model.pkl
├── vectorizer.pkl
├── requirements.txt
├── templates/
   └── model_web.html
```

.pkl will be generated after you convert trained_model.py into trained_model.ipynb and run the model.

Model Summary

- Vectorizer: TF-IDF
- Classifier: Logistic Regression
- Input: text
- Output: Fake (0) or Real (1)

How to Run Locally

1. Clone/download the project
2. Run: `pip install -r requirements.txt`
3. Start the app: `python app.py`
4. Open in browser: http://127.0.0.1:5000/

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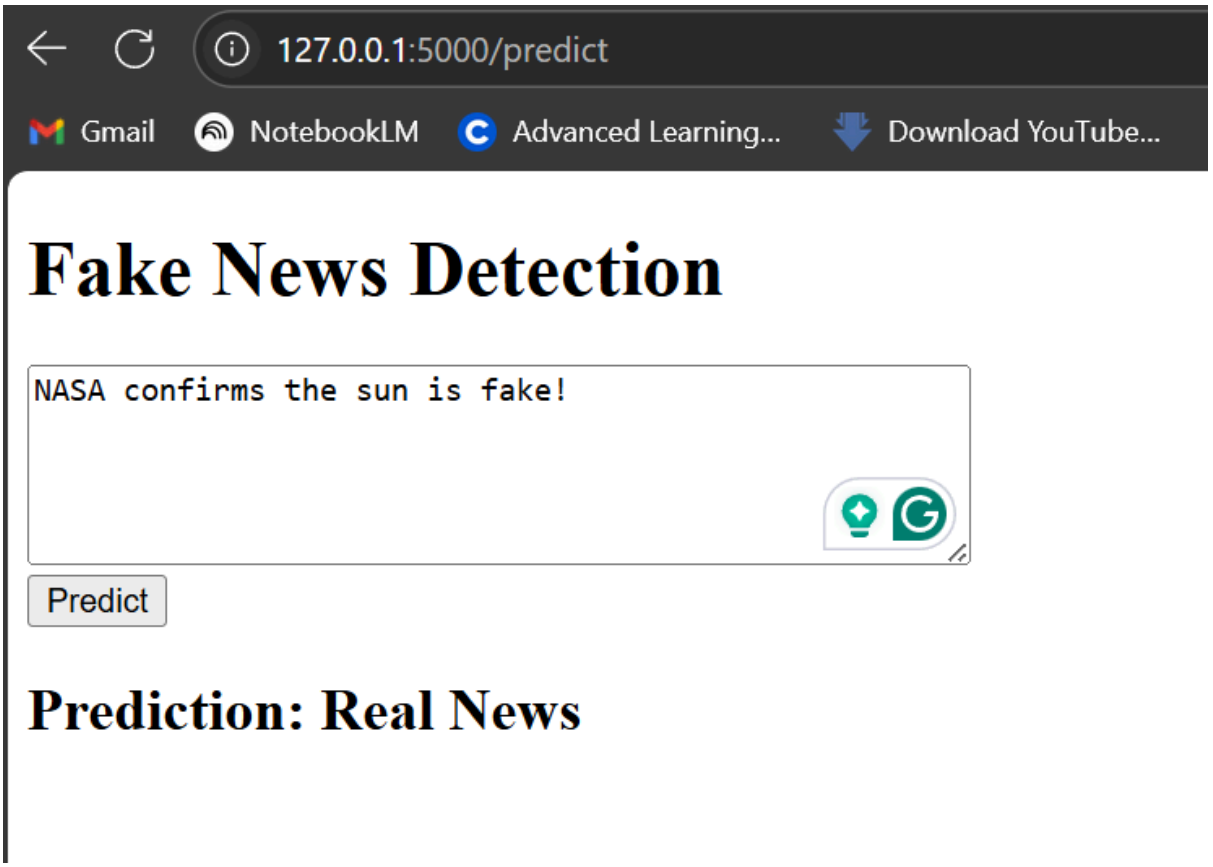
How It Works

User submits text → TF-IDF → Logistic Regression → Output prediction

Example Prediction

Input: `"NASA confirms the sun is fake!"`
Output: `Real News`



References

- Libraries: `Flask`, `scikit-learn`, `nltk`, `pandas`