

Spam SMS Detector

This project is about detecting spam messages using machine learning.

What's it about?

I trained a model to understand if a message is spam (like promotional texts or scams) or just a normal message.

What's in the data?

The data has real text messages. Each one is marked as either spam or not spam. Before using the data, I cleaned the messages and removed extra words.

What tools did I use?

I used:

- TF-IDF to convert text into numbers
- NLTK to clean the text
- Scikit-learn to train the models

Models I tried:

I tried a few models:

- Logistic Regression
- Naive Bayes
- SVM

They all worked well, but SVM was the best.

How to run it

1. Clone the repo
2. Install the libraries using requirements.txt
3. Open the notebook and run the code

Results

The model can now tell if a message is spam or not. It works well!

Files in this project

- spam_sms_detector.ipynb (main notebook)
- requirements.txt (list of libraries)
- spam.csv (dataset)
- README.md (info about the project)

Thanks for checking this out!

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