Fake News Detection

Approach:

- Preprocessed textual data using TF-IDF vectorization.

- Trained multiple classifiers (Naïve Bayes, Random Forest) and selected the best model.

- Evaluated performance using accuracy and F1-score.

Challenges:

- Dealing with imbalanced datasets (real vs. fake news).

- Feature extraction optimization for better classification.

Model Performance & Improvements:

- Best model achieved 92% accuracy.

- Could improve with deep learning approaches (LSTMs, transformers).

Deployment:

https://hasantahir248-fake-news-detection-app-zsk5cd.streamlit.app/