

Requirements for SMS spam detection(jupyter notebook)

1. Required Libraries
 - a. numpy
 - b. pandas
 - c. nltk
 - d. string
 - e. collection
 - f. streamlit (for web app frame)
2. Machine Learning and Processing
 - a. sklearn
3. Data Visualization
 - a. matplotlib
 - b. seaborn
 - c. wordcloud
4. Model Persistence
 - a. pickle
5. Required Files (make sure you have this file)
 - a. spam.csv
6. Note:
 - a. Ensure you have ISO-8859-1 encoding support when reading the CSV.
 - b. If using Jupyter Notebook, add %matplotlib

inline before plotting.

- c. The script saves the trained model and vectorizer using pickle, so ensure write permissions are available.

Requirements (for app.py)

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1. Required Libraries for (Web App Framework)
 - a. nltk
 - b. streamlit
 - c. string
 - d. pickle
 - e. scikit-learn
2. Required Files
 - **vectorizer.pkl** (TF-IDF vectorizer saved using pickle)
 - **model.pkl** (Trained machine learning model saved using pickle)
3. Running the Streamlit App
 - streamlit run your_script.py
 - (Replace your_script.py with the actual script filename.)
 - Ensure the model.pkl and vectorizer.pkl files were correctly saved and are compatible.