

# Spam Detection

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Welcome to the Spam Detection project! This application utilizes a Naive Bayes algorithm with TF-IDF vectorization for spam detection. Here's a quick overview of the key files and functionalities:

## Project Overview

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**Objective:** Detect spam in emails or messages using a Naive Bayes algorithm.

**Files:**

- `app.py`: Main Python file for the web application.
- `model.py`: Python script containing the Naive Bayes model and TF-IDF vectorizer.
- `requirements.txt`: List of project dependencies.
- `static/`: Folder for static assets in the web application.
- `templates/`: Folder containing HTML templates for the web app.

## Getting Started

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1. Clone the repository:

```
bash git clone https://github.com/vijaytakbhate2002/Spam-detection.git
```

1. Install dependencies:

```
bash pip install -r requirements.txt
```

1. Run the application:

```
bash python app.py
```

Open the application in your browser at <http://localhost:5000>.

Write an email or message in the text box and click on the "Predict" button to detect spam.

## Contributing

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We welcome contributions! If you have suggestions or improvements, feel free to open an issue or submit a pull request.

## License

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This project is licensed under the [MIT License](#).