Project Report

Spam Detector Website

---

1. Project Title:

Spam Detector Website

---

2. Team Member:

Name: Nikhil Dhandhi(2401360026), Jatin Drall(2401360024)

Section: Btech UXUI

---

3. Project Description:

This project is a simple **Spam Detector Website** developed using **Flask**, a Python web framework.
The website allows users to enter a text message, and the system will predict whether the message is **Spam** or **Not Spam** using a machine learning model trained with a **Naive Bayes classifier**.

The model was trained on a small dataset consisting of examples of spam and non-spam text messages.
It uses **CountVectorizer** for feature extraction and **Multinomial Naive Bayes** for classification.

---

4. Technologies Used:

- Python

- Flask

- HTML, CSS

- Machine Learning (Naive Bayes)

- Scikit-learn

- Pickle (for model saving)

---

5. Project Files:

- app.py — Main Flask application file

- templates/index.html — Frontend webpage

- static/style.css — Styling for the webpage

- model.pkl — Trained Machine Learning Model

- vectorizer.pkl — Saved CountVectorizer

- requirements.txt — List of required Python libraries

- README.md — Project documentation

---

6. Steps to Run the Project:

*Install required libraries: pip install -r requirements.txt

*Run the Flask application: python app.py

*Open a browser and go to: http://127.0.0.1:5000/

*Enter a text message to check if it is spam or not.

---

7. Output Screenshots:

Spam Detector

FREE Hellotune aapka intezaar kar rahi hai!
Aaj hi Airtel Thanks App par set karein
i.airtel.in/Free_hellotune

Detect Spam

Result: Not Spam

Spam Detector

Welcome bonus is available: up to 40000 INR for your
1st deposit. Get it now and bet on the 2025 IPL games
with MelBet. https://mlb.et/ZFKfMM2

Detect Spam

Result: Spam