KADA SMS Booking System (MVP)

Overview

The KADA SMS Booking System is a simple desktop application designed to classify SMS messages and generate appropriate responses for a ride-booking and package delivery service. This project uses a basic NLP model (built with NLTK) to detect user intent from SMS messages and respond accordingly.

How to Use

1. Extract Files:

- Place the following files in the same folder:
 - sms booking gui.exe (the executable application)
 - nltk sms model.pkl (the serialized NLP model)
- o Ensure both files remain in the same directory for the application to work correctly.

2. Run the Application:

- o Double-click on sms booking gui.exe to open the application.
- o A GUI window will appear.

3. Interact with the Application:

- o Type an SMS message in the input box.
- o Click the "**Process SMS**" button to classify the intent and generate a response.
- o The application will display the detected **intent** and an appropriate **response**.

Sample SMS Messages

You can try the following sample messages to test the system:

- "I need a ride to Makola" \rightarrow Intent: ride_request, Response: "Your ride has been booked. Please wait for your driver."
- "Send the package to Tema" \to Intent: delivery_request, Response: "Your delivery order has been booked. Please await the dispatch rider."
- "How do I use this system?" \rightarrow Intent: help_request, Response: "To request a ride, type 'Ride to [destination]'. To send a package, type 'Send to [destination]'."

Features

SMS Intent Detection:

- o Detects three primary intents:
 - ride request
 - delivery request
 - help request
- Handles unknown messages gracefully.

• Interactive GUI:

o Simple and user-friendly interface for entering and processing SMS messages.

Requirements

- The application runs as a standalone executable. No installation or additional setup is required.
- Ensure the nltk sms model.pkl file is in the same directory as the executable.

Technical Details

• **Programming Language**: Python

GUI Framework: TkinterNLP Framework: NLTK

Model: Basic keyword-based intent detection using pre-defined intents.

Known Limitations

- The system currently uses a simple keyword-matching model and may not handle complex or ambiguous messages.
- It is not yet integrated with live SMS services like Africa's Talking.

Contact

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