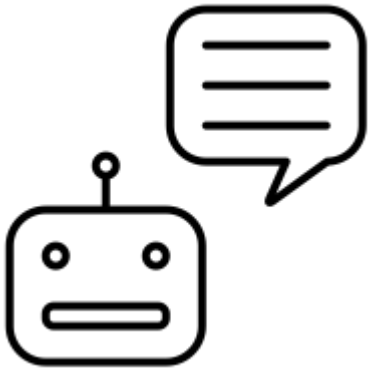
Smart Messaging App



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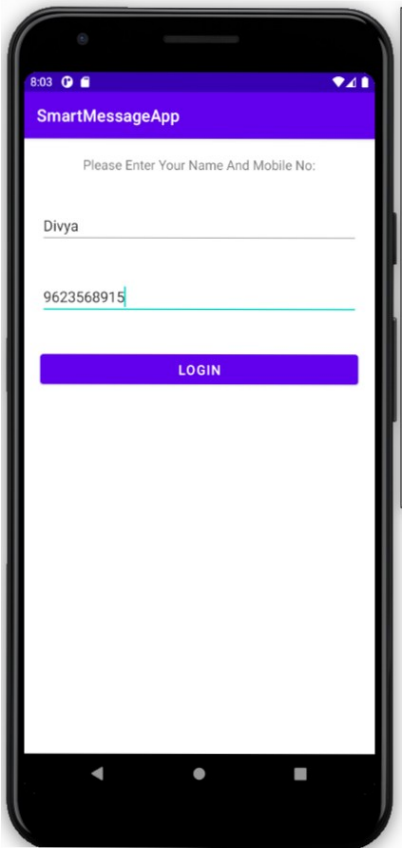


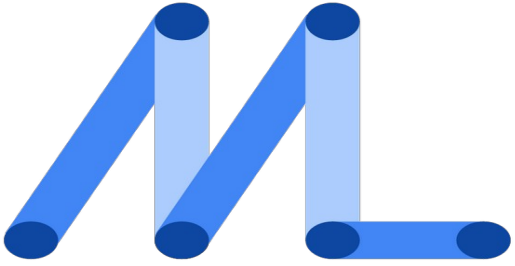
Introduction

- The Smart Reply Messaging App generates reply suggestions based on the full context of a conversation, and not just a single message, resulting in suggestions that are more helpful to your users.
- Smart Reply is intended for casual conversations in consumer apps. Reply suggestions might not be appropriate for other contexts or audiences.
- Smart Reply helps your users respond to messages quickly, and makes it easier to reply to messages on devices with limited input capabilities.

Dependencies

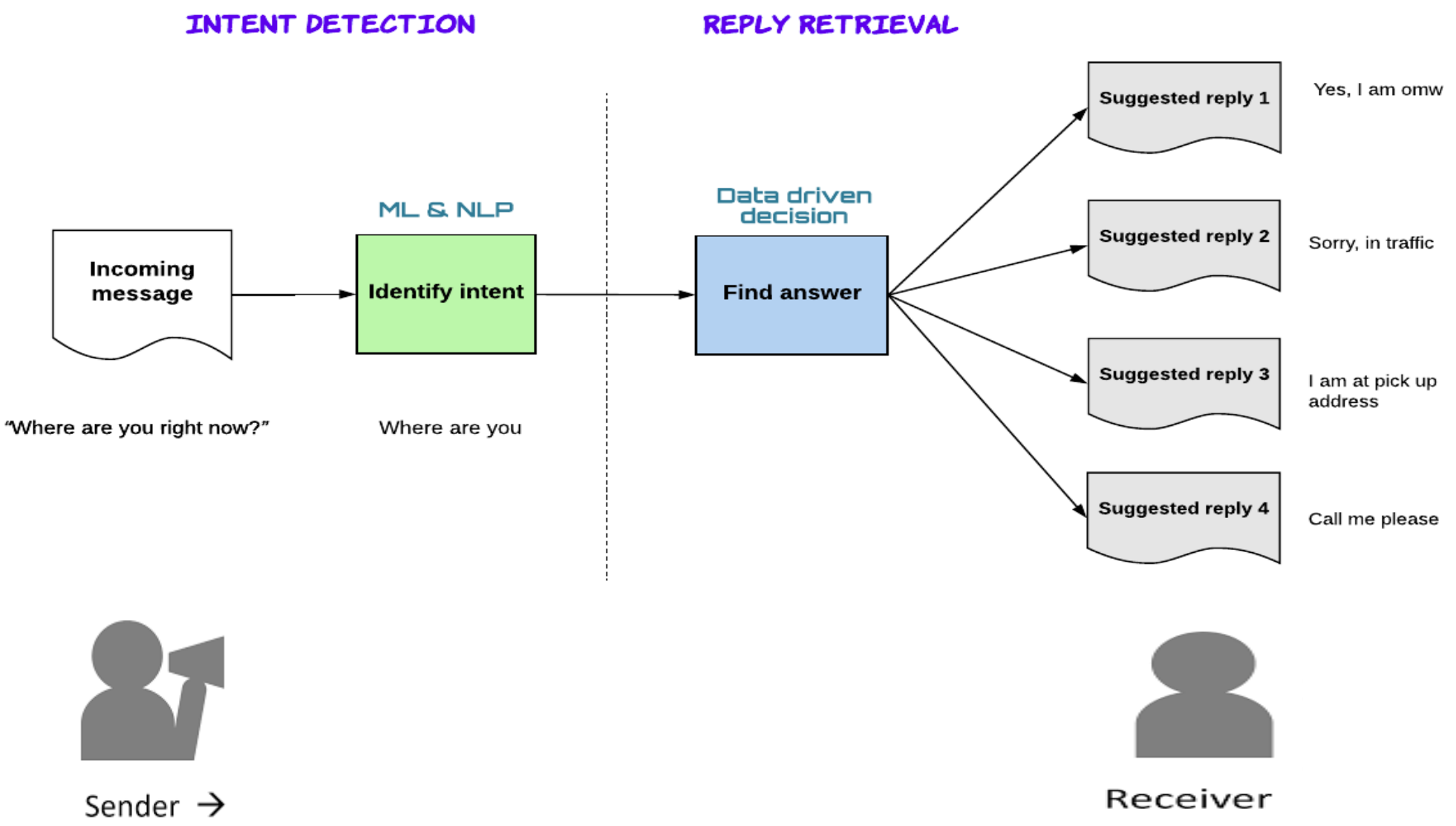
- Android Studio 4.1.
- Firebase ML-Toolkit's Smart Reply API.
- ML Kit Android libraries.

Firebase



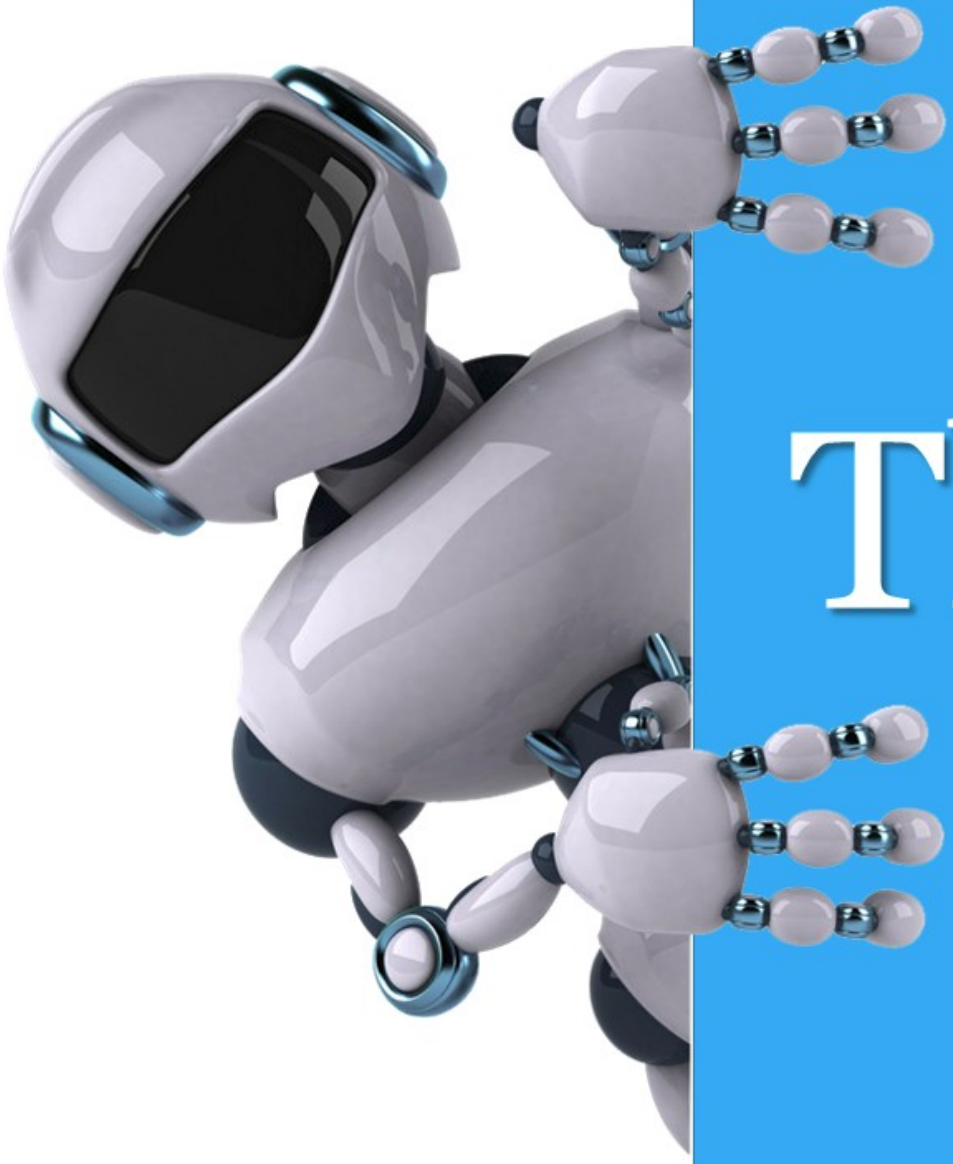
How Model Works

- The model uses up to 10 of the most recent messages from a conversation history to generate reply suggestions.
- It detects the language of the conversation and only attempts to provide responses when the language is determined to be English.
- If the language is determined to be English and no sensitive topics are detected, the model provides up to three suggested responses. The number of responses depends on how many meet a sufficient level of confidence based on the input to the model.


INTENT DETECTION
REPLY RETRIEVAL
Incoming message
ML & NLP
Identify intent
Data driven decision
Find answer
Suggested reply 1
Yes, I am omw
Suggested reply 2
Sorry, in traffic
Suggested reply 3
I am at pick up address
Suggested reply 4
Call me please
"Where are you right now?"
Where are you
Sender
Receiver

Reference

- https://firebase.google.com/docs/ml-kit/generate-smart-replies
- https://firebase.google.com/docs/ml-kit/android/generate-smart-replies
- https://joebirch.co/firebase/exploring-firebase-ml-kit-on-android-smart-reply/



Thank you