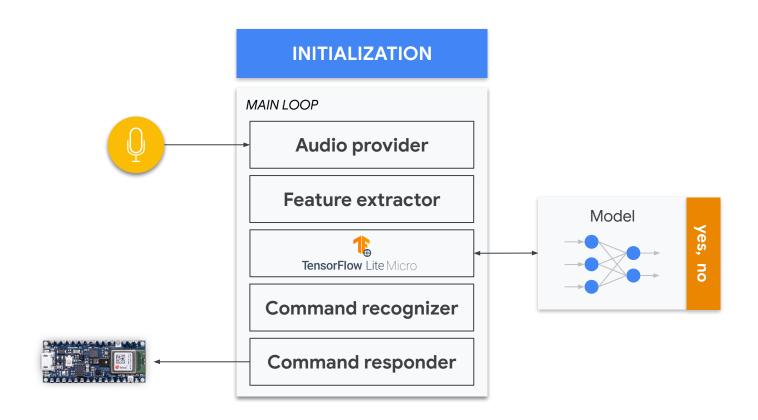
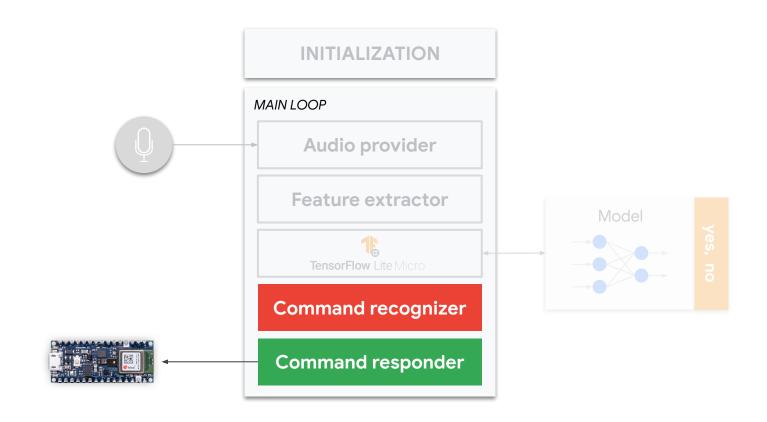
KWS Post-processing





user says,

"Upward!"

Command recognizer

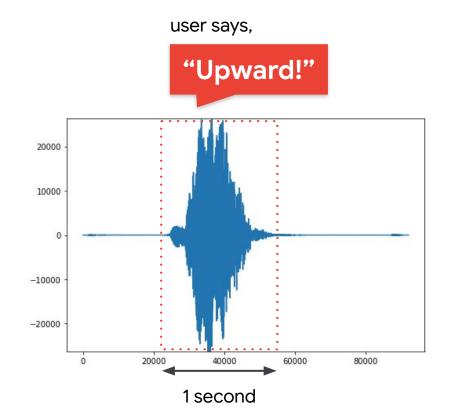
Command responder

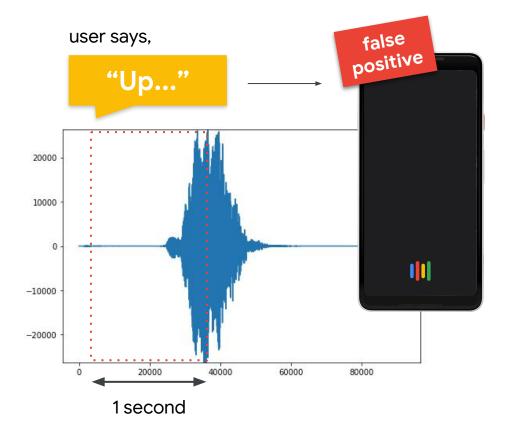
Keyword

'Up"

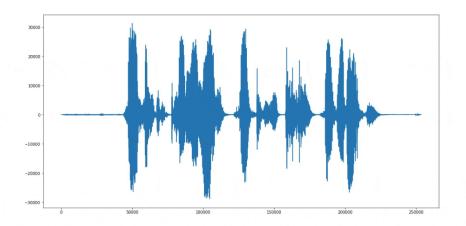


?



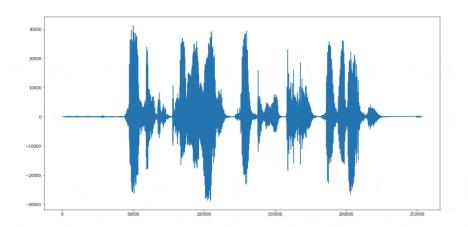


Command responder

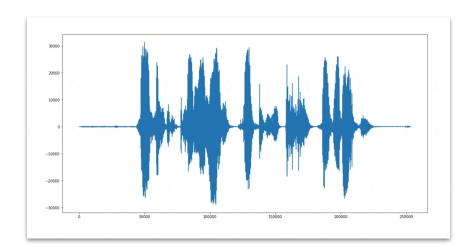


For every *new* window:

- 1. **Store** new inference
- Calculate new score for all of the keywords based on new inference
- 3. **Output** new average scores



Timestep	"Yes"	"No"	"Unknown"
1	55%	35%	20%
2	65%	25%	10%
3	76%	12%	12%
4	88%	7%	5%
5	99%	0.5%	0.5%



```
// Determine whether a command was recognized based
// on the output of inference

const char* found_command = nullptr;
uint8_t score = 0;
bool is_new_command = false;

TfLiteStatus process_status = recognizer->ProcessLatestResults(
    output, current_time, &found_command, &score, &is_new_command);

if (process_status != kTfLiteOk) {
    TF_LITE_REPORT_ERROR(error_reporter,
        "RecognizeCommands::ProcessLatestResults() failed");
    return;
}
```

Command responder

```
// Do something based on the recognized command.
// The default implementation just prints to
// the error console, but you should replace with
// your own function for a real application.
```

```
if (is_new_command) {
 TF_LITE_REPORT_ERROR(error_reporter, "Heard %s (%d) @%dms",
found_command,
                      score, current_time);
 // If we hear a command, light up the appropriate LED
  if (found_command[0] == 'y') {
    last_command_time = current_time;
    digitalWrite(LEDG, LOW); // Green for yes
  if (found_command[0] == 'n') {
    last_command_time = current_time;
    digitalWrite(LEDR, LOW); // Red for no
  if (found_command[0] == 'u') {
    last_command_time = current_time;
    digitalWrite(LEDB, LOW); // Blue for unknown
```

