

Hey Akash,

So, I've got an updated project description for you.

What's changed is:

1. Depending on what time of day it is; it should change its responses a bit.
2. Depending on what date it is, it should run a new set of responses (like New Year's eve)
3. It would need to remember who it has seen and at what time it saw them last.

Other than that, the project is more or less the same:

I want to set up a Raspberry Pi with a camera attachment.

This camera will see a live feed of people.

I want Python code to check that live feed continuously to see if it notices any movement, and if it notices movement, then it should try to figure out what it is looking at. Is it one person or a group of people.

(It would have to remember about 30-50 people which it should recognise)

The rules:

If it is just ONE person:

    If it DOES recognise that person:

        If it is 05:30-10:00 in the morning:

            If it is the first time TODAY it is seeing that particular person:

                Then it will write out the text "Good morning {NAME}"

            If it has already seen that person TODAY:

                Then it should not write out any text

        If it is 10:00-16:30 during the day:

            Then it should randomly pick between:

                "Hello {NAME}"

            And

                "Hey {NAME}"

        If it is 16:30-18:30 in the afternoon:

            If it is the first time TODAY it is seeing that particular person:

                Then it should not write out any text

            If it has already seen that person TODAY:

                Then it should write out "Have a nice evening {NAME}"

    If it DOES NOT recognise the person:

        If it is 05:30-10:00 in the morning:

            Then it will write "Good morning"

If it is 10:00-16:30 during the day:

Then it will write "Hello"

If it is 16:30-18:30 in the afternoon:

Then it will write "Have a pleasant evening"

If it is MORE THAN ONE person:

If it DOES recognise all persons it is looking at:

(Since it knows the name, it will know the gender)

If it knows that it is looking at all WOMEN:

If it is 05:30-10:00 in the morning:

Then it will say "Good morning, Ladies"

If it is 10:00-16:30 during the day:

Then it will say "Hello Ladies"

If it is 16:30-18:30 in the afternoon:

Then it will say "Good evening, Ladies"

If it knows that it is looking at all MEN:

If it is 05:30-10:00 in the morning:

Then it will say "Morning Guys"

If it is 10:00-16:30 during the day:

Then it will say "Hey Guys"

If it is 16:30-18:30 in the afternoon:

Then it will say "Evening Guys"

If it knows that it is looking at a mixed group of genders:

If it is 05:30-10:00 in the morning:

Then it will say "Good morning"

If it is 10:00-16:30 during the day:

Then it will say "Hey all"

If it is 16:30-18:30 in the afternoon:

Then it will say "Good evening"

If it DOES recognise at least one person that it is looking at, but DOES NOT recognise the others, or can't be sure of the others:

If it is 05:30-10:00 in the morning:

Then it will say "Good morning"

If it is 10:00-16:30 during the day:

Then it will say "Hey all"

If it is 16:30-18:30 in the afternoon:

Then it will say "Good evening"

If it DOES NOT recognise any of the persons it is looking at, or simply can't be sure:

    If it is 05:30-10:00 in the morning:

        Then it will say "Good morning and welcome"

    If it is 10:00-16:30 during the day:

        Then it will say "Hello and welcome"

    If it is 16:30-18:30 in the afternoon:

        Then it will say "Good evening and welcome"

Above {NAME} of course means the name of the person it recognises from its photos.

And as I wrote in my first message.

I would like it coded in Python.

I would like the code to be clean, with variable names that make sense.

I would like for the code to be well commented to describe different functions and rows.

(No external documentation would be needed to explain the code besides the in-line code comments)

And once it is done I would like a Guide / or a walk-through on how to set it up on a "new"/"fresh" Raspberry Pi.

(I'd like a guide on which Python version and IDE to use)

(If there are dependencies, then I would like a guide on how to download and install)

(So basically, a complete "install-guide" with all commands required to get the project up and running)

Let me know how that sounds.

Would you need pictures of all people it should be trained on, or would that not matter until we mirror it on my Raspberry Pi?

Kind regards,

Rikard