Task 0: Sentinel Drone

blogpost-style

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@sd22

Welcome!

This is a comprehensive document of the things you need to do to complete Task 0

Prerequisites

Please read the **Storyline topic** before proceeding here.

Installation

- This tasks requires you to install **Ubuntu 20.04 LTS** on your computer. Please prefer a bare metal install (i.e. no virtual machines (VMs)) as misconfiguring your VM instance can lead to all sorts of hard to decipher errors down the line.
- Ubuntu 20.04 LTS is a great general purpose Linux distribution that is capable of being daily-driven just fine.
- We will be installing **ROS 1 Noetic, Geospatial softwares and libraries** for the future tasks (you can do so now as well if you want), hence given the support for these packages, Ubuntu is the best choice compared to other Linux distributions.
- If you face problems during install, seek help from the internet and your peers around you, that'll be quicker, after that, keep an eye on the QnA with tags `task-0` and `installation`.
- Conversely, use the above tags if you want to post asking for help, make sure you have put in effort to solve the problem before asking.

Learning

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- This Task requires you to have or gain a certain comfort with using Python, as this will be the primary programming language used in the Theme.
- Check out the **relevant page** , to gain access to Python resource pointers and tips.

Task

1. Installation of Ubuntu 20.04 LTS and relevant softwares and packages on the computer that you will use for solving this theme.
2. Solving the **CodeChef challenge** which contains 10 simple Python problem statements, *and which will launch in the next week*.
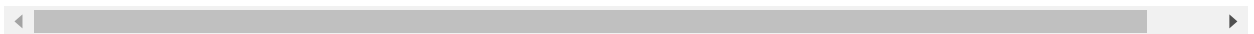
Submission

- Submission for task 0

  - Install `eyantra-autoeval` by running the command given below

    ```
    pip3 install -U eyantra-autoeval
    ```

  - Run this command to generate a results file

    ```
    eyantra-autoeval evaluate --year 2022 --theme SD --task
    ```

  - The above command will generate a `result-2022-SD-0-202209XX.json` file. Login to the **portal** . Visit this **link** . And upload the file generated above.

- Results on CodeChef for python challenge will be recorded and you do not need to submit anything on the e-Yantra Portal for this task.

Deadline

- The deadline for this task is **22nd September 2022 2359hrs IST (UTC+0530)**.

> “ Next **Task 0 : Installations**

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🔗 **Dual Boot Method**

🔗 **What to do after Installation?**

🔗 **.json file isn't being generated in the terminal. How to access .json file?**

🔗 **Please find a way to install ROS in Ubuntu 22.04.1 LTS**

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