

e-Yantra Robotics Competition (eYRC-2018)

Task 0 – Homecoming

Welcome to Task 0 of Homecoming ! The aim of this task is to get you started with installation of required software and learn the resources related to the software.

This task is divided into four parts:

- Software/Libraries Installation
- Testing the Setup
- Learning Resources
- Performing an Assignment

You will find the following folders in **Task 0** that contains this **Read Me** file.

- **1. Installation_Instructions**
 - Please find the following files in this folder:
 - [Python_OpenCV_PyTorch_Ubuntu_Installation.pdf](#)
 - [Python_OpenCV_PyTorch_Windows_Installation.pdf](#)
 - Follow the instructions in these files to install the following software/libraries:
 - Anaconda for Python 3
 - OpenCV
 - PyTorch
 - Visual Studio Code
- **2. Test_Setup**
 - Please find the following files in this folder:
 - [Test_Setup_Read_Me.pdf](#)
 - test_setup.py
 - cardinal.pyc

- Follow the instructions in the **Test_Setup_Read_Me.pdf** file to test the software/libraries installed and complete the **Task 0** successfully.

- **3. Resources**

- Please find the following file in this folder:
 - [Introduction_to_Machine_Learning.pdf](#)
- Follow the instructions in this file to learn about
 - Machine Learning and Deep Learning
 - Types of Machine Learning Algorithms
 - Flow of implementing a Machine Learning Algorithm
 - Common Machine Learning Terminologies
 - Common Machine Learning Algorithms

- **4. Assignment**

- Please find the following files in this folder:
 - [Getting_Started_with_Assignments.pdf](#)
 - Tutorial_and_Assignments.ipynb
- Follow the instructions in the **Getting_Started_with_Assignments.pdf** file to understand the basic usage of some libraries installed and steps for getting started with opening and working on Jupyter Notebook. The tutorial provided in the **Tutorial_and_Assignments.ipynb** will help you in solving the Assignments.

...Best Wishes ! ...