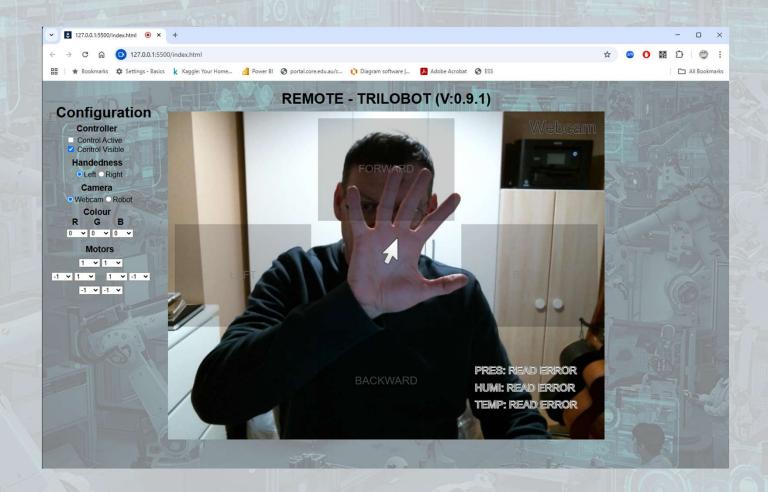
### **Trilobot Challenge**



In this activity you will drive a Trilobot using Google's **MediaPipe** Al Models to recognise hand movements from a webcam feed.



The basic idea is you will complete a set of challenges as quickly as possible. But there's a catch, you need to tailor the power to the motors to make the movements as controllable as possible but at the same time fast enough to allow complete the challenges using only hand movements in front of the webcam.



#### What do we need!

For this activity we need the following:

- A web browser (we recommend you use Chrome).
- The VS Code Editor
- A webcam connected to the computer.
- A Trilobot (Obviously!)
- · Your hand.

The lab computers should already be setup, but if you get stuck at any point, ask for help. We are here to help you.

Oh, you also need your cunning plan!

### Source files: <a href="https://github.com/neliot/Trilobot">https://github.com/neliot/Trilobot</a>



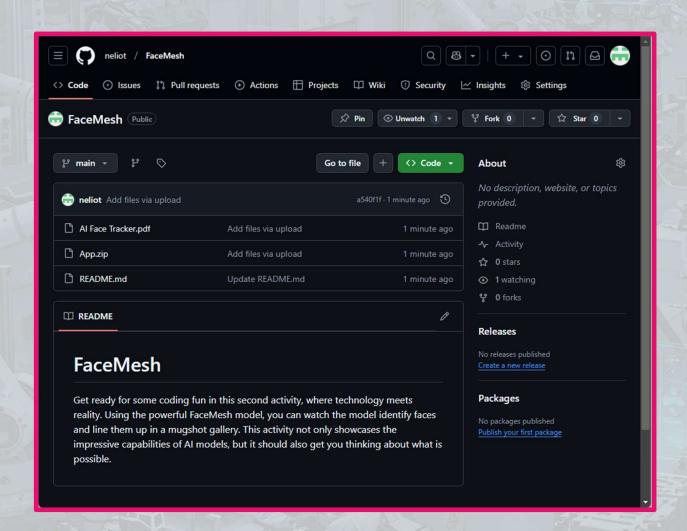


#### Download the application!

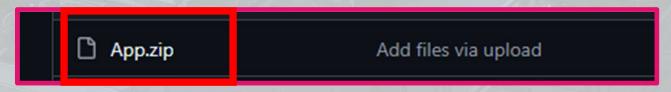
In your browser enter the URL below:

https://github.com/neliot/Trilobot

You should see a page similar to the one below:



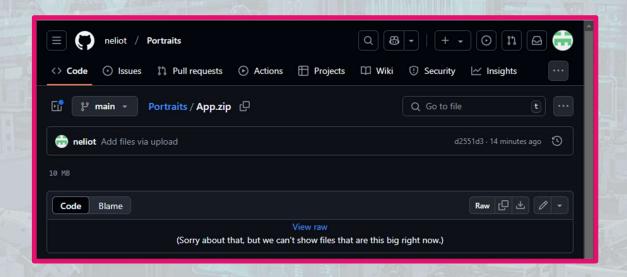
Click on the App.zip file:



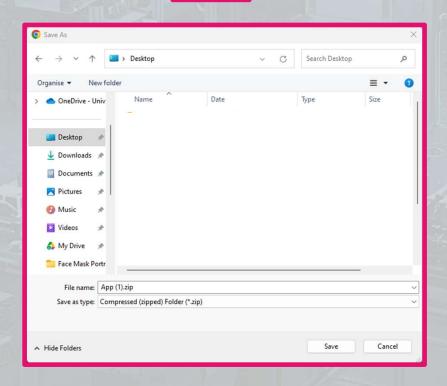


### Download the application!

You will now be presented with the following screen:



Click on the download icon and save the file to the Desktop.

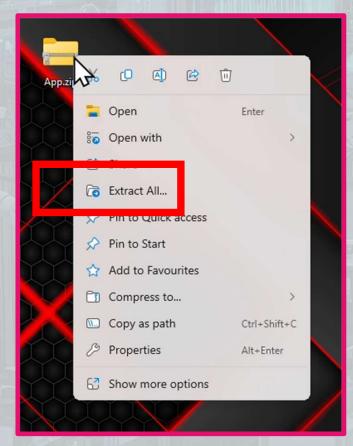




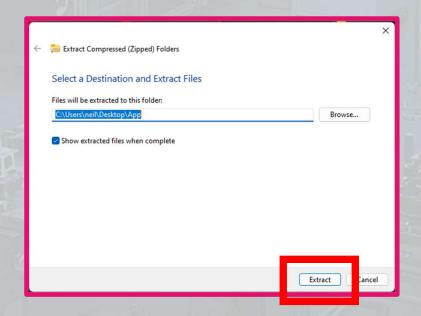
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### **Extract the application!**

Go to the desktop and find the file you just downloaded and right click on it.



Select Extract All and then Extract.

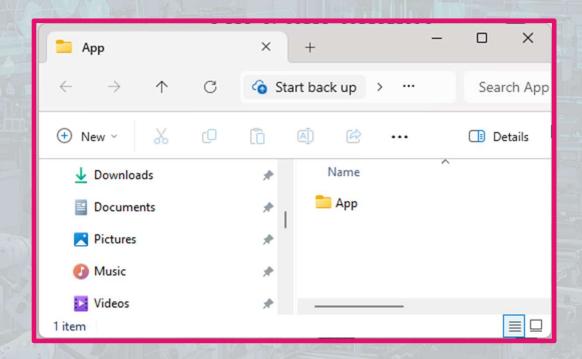




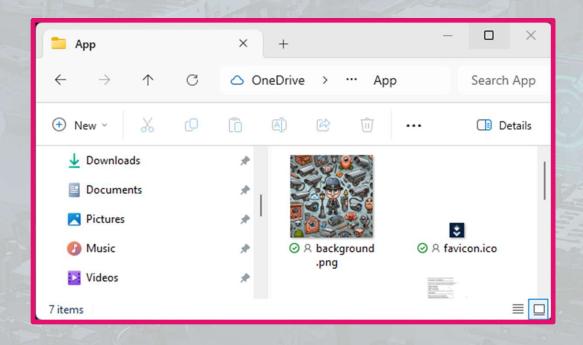
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### Running the application!

You can now see the Extracted application folder.



Go into the App folder by double clicking on it.



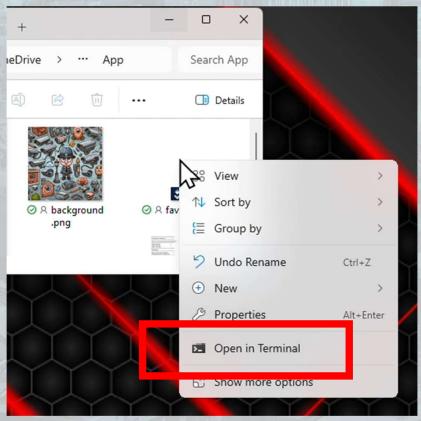
### And now the Editor



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### Running the application!

Right Click in the white space above the icon file to bring up the action menu as below:



Select the Open in Terminal option. When the terminal window opens go to it and type in "code ." (without the quotes, yes, a dot is required after code!). Press the RETURN key. You should now have VS Code running with the App folder showing the files. If you get a message asking if you Trust this folder select Yes.

Yes, I trust the authors

Trust folder and enable all features