**Capstone cam code setup**

1. Download PyCharm
2. File > New Project > Pure Python

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1. Right click parent folder > New > Python File, then name the python file (can’t be the same name as the project nameA screenshot of a computer program

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2. Go to terminal and write deactivate and press enter (just in case)A screenshot of a computer

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3. Still, in the terminal write ‘python3 -m venv <virtual environment name>’ (without the <, > and ‘), and press enter. You will se a virtual environment being created on the left side.A screenshot of a computer

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4. After seeing the virtual environment folder being created on the left side, write ‘source <virtual environment name>/bin/activate’ in the terminal (without the <, > and ‘). Then you should be able to see the name of the virtual environment in parenthesis at the beginning of your terminal name.A screenshot of a computer

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5. Now do the following Settings > Project: <project name> > Python Interpreter > Add Interpreter > Add Local Interpreter > Existing > and select the interpreter which your project name included should be the first option that gets selected automatically.A screenshot of a computer

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1. Before we continue DO NOT update any of the libraries we are about to download. PyCharm will say a new release is available but DO NOT update them. Now write ‘pip install numpy’ in the terminal (without ‘) and press enter.
2. After the installation is complete write ‘pip install opencv-python’ (without ‘) in the terminal and press enter.
3. Now go to projects directory and create 2 txt files ‘time\_data.txt’ and ‘predicted\_x.txt’ and put ‘0’ inside both. (If you have the default pathing project directory should be ‘PycharmProjects > <project name> and do not create the txt files in the virtual environment folder) A screenshot of a computer

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