Packaging the K2 inference script docker

1. Base image:
    a. Use a nvidia cuda image as a base image.
    b. Ensure to use the devel version for further building the docker image on it.
    c. The CUDA version that worked for pytorch 1.13 was 11.5

2. System packages:
    a. Always update the apt-get package first
    b. Then install the following packages in the same command:
        i. libblas-dev
        ii. liblapack-dev
        iii. ffmpeg
        iv. libsm6
        v. libxext6
        vi. gfortan
        vii. git
        viii. python3
        ix. python3-dev
        x. python3-pip
    c. The first 2 packages are required for installing correctly and creating wheels for the spams package.
    d. System packages 3-6 are necessary for correct installation of opencv-python packages.

3. Python packages:
    a. Install the pytorch package separately as it has a complex installation.
    b. All the required packages are listed in the requirements.txt
4. Prediction files:
    a. Copy the prediction files from the k2_inf folder into the container.
    b. Model weights and date files are not present on github due to size constraints.