ESCLMC Algorithm: User Guide

This document provides instructions on how to set up and run the ESCLMC prediction algorithm.

1. Prerequisites

- **Hardware:** A machine with a **GPU** (CUDA-enabled) is required to run this program.
- **Software:** Python 3.9 environment. Please install the necessary dependencies using the provided requirements file:

Bash

```
pip install -r requirements.txt
```

2. Setup and Installation

Before running the prediction, you must ensure all files are in the correct location:

1. **Download Resources:** Download the source code, model weights, and configuration files.
2. **Extract Files:**
    - Unzip the **nnUNet weights** directly into the code's root directory.
    - Unzip the **configuration files** and **model checkpoints** into the code's root directory.

Expected Directory Structure:

After extraction, your folder should look like this:

Plaintext

```
project_root/
├─── nnUNet/                    # Extracted nnUNet folder
├─── radiomics_config/          # Extracted config folder
├─── min_loss0.pth              # Model weight file
├─── predict.py                 # Main script
├─── requirements.txt
└─── ...
```

3. Usage

To run the prediction on a zip file containing DICOM images, open your terminal and run the following command:

Bash

```
python predict.py test_data.zip
```

Replace test_data.zip with the actual path to your input zip file.