

Food Recipe Generator - Setup & Installation

Setup Commands

```
STEP 1: Clone Repository
-----
git clone https://github.com/facebookresearch/inversecooking.git
cd inversecooking

STEP 2: Create Virtual Environment
-----
python -m venv .venv
.venv\Scripts\activate

STEP 3: Install Dependencies
-----
pip install torch torchvision torchaudio --index-url https://download.pytorch.org/whl/cu124
pip install gradio pillow tqdm

STEP 4: Fix PyTorch 2.x Compatibility
-----
# In src/modules/transformer_decoder.py
# Change line with torch.uint8 to torch.bool for mask tensors

STEP 5: Download Pre-trained Weights
-----
# Download modelbest.ckpt from:
# https://dl.fbaipublicfiles.com/inversecooking/modelbest.ckpt
# Place in data/ folder

STEP 6: Verify GPU
-----
python -c "import torch; print(torch.cuda.is_available())"
# Should print: True
```

Dataset Preparation

DATASET PREPARATION:

```
Indian Food Dataset (from Kaggle):
-----
# 80 categories, ~4,000 images
# Source: iamsouravbanerjee/instant-polish-food-images-dataset

Food-101 Dataset (Western):
-----
# 101 categories, 101,000 images
```

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```
# Downloaded via torchvision.datasets.Food101
```

```
Combined Dataset Statistics:
```

- ```

- Total Classes: 181
- Training Images: 113,900
- Validation Images: 20,760
- Test Images: Available for evaluation
- Average per class: ~629 images
```