# <u>Vision-Language Models are Strong Noisy Label Detectors</u> (Code reproduction results)

#### #1) Team Member Details

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#### #2) Changes made in the code

- Comment out torch and torchvision from requirements.txt and installed using the following command:
  - pip3 install torch torchvision torchaudio --index-url https://download.pytorch.org/whl/cu118
- from clip import clip -> from .clip import clip (File: ./model/load\_clip.py)
- Manually downloaded CIFAR-100.
- File: main\_phase2.py, Line: 127, add the argument, weights\_only=False (Reason: PyTorch2.0 used weights\_only=False as default and PyTorch2.6 and beyond uses weights\_only=True as default).
- Download CIFAR-100\_human.pt from below and place it in data/cifar-100/
  - o cifar-10-100n/data/CIFAR-100\_human.pt at main · UCSC-REAL/cifar-10-100n
- dataloader/dataloader\_cifar.py (Line: 70), add the argument weights\_only=False
- Main\_real\_phase2.py, Line: 120, add the argument, weights\_only=False

#### #3) Phase 1 results (Synthetic Dataset: CIFAR-100)

	Sym. 0.2		Sym. 0.4		Sym. 0.6		Ins. 0.2		Ins. 0.3		Ins. 0.4	
Method	Prec.	Rec.	Prec.	Rec.	Prec.	Rec.	Prec.	Rec.	Prec.	Rec.	Prec.	Rec.
DeFT (ours) Reproduced Results	99.51 99.57	97.77 97.90	98.75 98.77		97.04 96.91		98.47 98.48				94.08 89.07	95.28 97.61

	Sym. 0.2		Sym. 0.4		Sym. 0.6		Ins. 0.2		Ins. 0.3		Ins. 0.4	
Method	Best Acc.	Last Acc.										
DeFT Reproduced Results	87.50 86.63	87.50 86.63	86.69 85.94	86.69 85.94	84.00 84.85	83.88 84.85	87.58 86.32	87.58 86.28	85.68 85.22	85.64 85.22	83.73 82.59	83.71 82.26

## #4) Phase 2 results (Synthetic Dataset: CIFAR-100)

	Sym. 0.2		Sym. 0.4		Sym. 0.6		Ins. 0.2		Ins. 0.3		Ins. 0.4	
Method	Best Acc.	Last Acc.										
DeFT Reproduced Results	89.38 89.39	89.35 89.39	88.17 88.12	88.11 88.12	85.81 85.64	85.72 85.61	89.38 89.20	89.35 89.20	88.68 88.43	88.68 88.43	85.75 85.44	85.74 85.33

## #5) Results on Real dataset (CIFAR-100N)

Method	Accuracy (%)
DeFT	79.04
Reproduced Result	74.10

### #6) References

Research Paper - <a href="https://openreview.net/forum?id=haUnEiXgQ7">https://openreview.net/forum?id=haUnEiXgQ7</a>