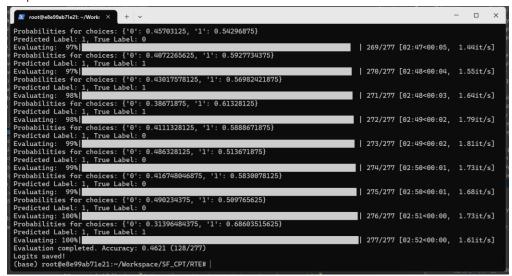
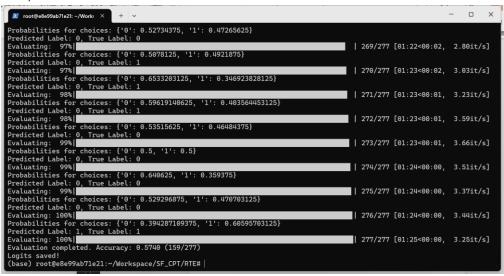
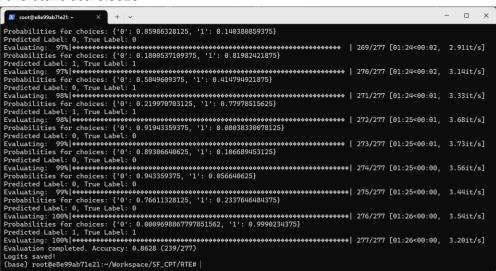
7b pretrain acc: **0.4621**



13b pretrain acc: **0.5740**



7b loratune acc: **0.8628**



Proxy tuning acc: 0.8448

```
Predicted Answer: 0, True Answer: 0
Probabilities for choices: ('0': 0.020332353189587593, '1': 0.9796676635742188}
Predicted Answer: 1, True Answer: 0
Probabilities for choices: ('0': 0.13660839200019836, '1': 0.863391637802124}
Predicted Answer: 1, True Answer: 1
Probabilities for choices: ('0': 0.9991815781593323, '1': 0.010818448849022388}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: ('0': 0.0985985528677702, '1': 0.9991401406566101}
Predicted Answer: 1, True Answer: 0
Probabilities for choices: ('0': 0.8289388418197632, '1': 0.1710612028837204)
Predicted Answer: 0, True Answer: 0
Probabilities for choices: ('0': 0.8289388418197632, '1': 0.89391637802124}
Predicted Answer: 1, True Answer: 0
Probabilities for choices: ('0': 0.828038823, '1': 0.89391637802124}
Predicted Answer: 1, True Answer: 1
Probabilities for choices: ('0': 0.407333433628823, '1': 0.5926666259765625}
Predicted Answer: 1, True Answer: 1
Probabilities for choices: ('0': 0.12421300262212753, '1': 0.3757869601249695}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: ('0': 0.8880392827987671, '1': 0.11124120652675629}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: ('0': 0.8887588381767273, '1': 0.11124120652675629}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: ('0': 0.8887588381767273, '1': 0.11124120652675629}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: ('0': 0.8887588381767273, '1': 0.11124120652675629}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: ('0': 0.8887588381767273, '1': 0.11124120652675629}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: ('0': 0.8887588381767273, '1': 0.11124120652675629}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: ('0': 0.884738738019104, '1': 0.9992678761482239}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: ('0': 0.7413679368019104, '1': 0.9992678761482239}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: ('0': 0.84481277)
(base) root@8699ab71e21:~/Wor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ••••••• [00:00<00:00, 1792.94it/s]
```

Consistent proxy tuning acc: 0.8484

```
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {'0': 0.0007672925139464137, '1': 0.9992327690124512}
Predicted Answer: 1, True Answer: 1
Probabilities for choices: {'0': 0.0002611903182696551, '1': 0.9997387528419495}
Predicted Answer: 1, True Answer: 1
Probabilities for choices: {'0': 0.999938660049438, '1': 4.611274562194012e-05}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {'0': 0.9999238785843574, '1': 0.999818281364441}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {'0': 0.00288092675918579, '1': 9.7615658887662e-05}
Predicted Answer: 0, True Answer: 1
Probabilities for choices: {'0': 0.002880926798954606, '1': 0.999148883686629}
Predicted Answer: 1, True Answer: 1
Probabilities for choices: {'0': 0.002880926798954606, '1': 0.9971990585327148}
Predicted Answer: 1, True Answer: 1
Probabilities for choices: {'0': 0.002880926798954606, '1': 0.9998120794296265}
Predicted Answer: 0, True Answer: 1
Probabilities for choices: {'0': 0.001879054363816977, '1': 0.9988120794296265}
Predicted Answer: 0, True Answer: 1
Probabilities for choices: {'0': 0.002800926798954606, '1': 0.9988120794296265}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {'0': 0.002800926798954606, '1': 0.9988120794296265}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {'0': 0.9999125003814697, '1': 3.822911094175652e-05}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {'0': 0.9999125003814697, '1': 0.0012731103925034404}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {'0': 0.9999125003814697, '1': 0.0012731103925034404}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {'0': 0.9994063763184697, '1': 0.0035936026833951473}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {'0': 0.9994063763184697, '1': 0.0035936026833951473}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {'0': 0.88884266800433e-05, '1': 0.99999110698699951}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {'0': 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ×
```

13b loratune acc: **0.8664**

```
Predicted Label: 1, True Label: 1
Evaluating: 97% | 269/277 [03:20<00:06, 1.24it/s]
Probabilities for choices: {'0': 0.89501953125, '1': 0.105224609375}
Predicted Label: 0, True Label: 0
Evaluating: 97% 270/277 [03:21<00:05, 1.34it/s]
Probabilities for choices: {'0': 0.00926971435546875, '1': 0.99072265625}
Predicted Label: 1, True Label: 1
Evaluating: 98% 271/277 [03:22<00:04, 1.41it/s]
Probabilities for choices: {'0': 0.05145263671875, '1': 0.94873046875}
Predicted Label: 1, True Label: 1
Evaluating: 98% 272/
Evaluating: 98% 272/277 [03:22<00:03, 1.56it/s]
Probabilities for choices: {'0': 0.140380859375, '1': 0.85986328125}
Evaluating: 99% 273/277 [03:23<00:02, 1.58it/s]

Probabilities for choices: {'0': 0.6513671875, '1': 0.3486328125}

Predicted Label: 0, True Label: 0

Evaluating: 000'
Evaluating: 99% 274/277 [03:24<00:01, 1.50it/s]
Probabilities for choices: {'0': 0.892578125, '1': 0.107421875}
Predicted Label: 0, True Label: 0
Evaluating: 99%
Evaluating: 99% 275/277 [03:24<00:01, 1.45it/s] Probabilities for choices: {'0': 0.81298828125, '1': 0.1871337890625} Predicted Label: 0, True Label: 0
Evaluating: 100% 276/277 [03:25<00:00, 1.50it/s]
Probabilities for choices: {'0': 0.65478515625, '1': 0.34521484375}
Predicted Label: 0, True Label: 0
Evaluating: 100% | 277/277 [03:26<00:00, 1.34it/s]
Probabilities for choices: {'0': 0.00971221923828125, '1': 0.990234375}
Predicted Label: 1, True Label: 1
Evaluation completed. Accuracy: 0.8664 (240/277)
Logits saved!
```

Gaussian Process tuning acc: **0.8628** 230 / 2490 (9.24%)

```
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {0: 0.0004878571489825845, '1': 0.9995121955871582}
Predicted Answer: 1, True Answer: 1
Probabilities for choices: {0': 0.00012931562378671249, '1': 0.9998706579208374}
Predicted Answer: 1, True Answer: 1
Probabilities for choices: {0': 0.9998488426208496, '1': 0.0001511819864390418}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {0': 0.9998488426208496, '1': 0.00017400544311385602}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {0': 0.9998260140419006, '1': 0.00017400544311385602}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {0': 0.3129233258278109e-05, '1': 0.9999678134918213}
Predicted Answer: 1, True Answer: 1
Probabilities for choices: {0': 0.00067672925130464137, '1': 0.99932277690124512}
Predicted Answer: 1, True Answer: 1
Probabilities for choices: {0': 0.0006771942134946585, '1': 0.999322772026062}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {0': 0.99997879981995, '1': 0.00020027377468068153}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {0': 0.99998557567596436, '1': 0.00014425987319555134}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {0': 0.9998557567596436, '1': 0.00014425987319555134}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {0': 0.3994557567596436, '1': 0.00014425987319555134}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {0': 0.3944258423871361e-05, '1': 0.9999965417251587}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {0': 3.944258423871361e-05, '1': 0.9999665417251587}
Predicted Answer: 1, True Answer: 1
Prodicted Answer: 0, True Answer: 0
Probabilities for choices: {0': 3.944258423871361e-05, '1': 0.9999665417251587}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {0': 3.944258423871361e-05, '1': 0.9999665417251587}
Predicted Answer: 1, True Answer: 1
Evaluating: 100%|
```

Gaussian Process with filter tuning acc: **0.8448** Config: input_threshold=0.149, output_threshold=0.4 46 / 2490 (1.85%)

```
Predicted Answer: 0, True Answer: 1
Probabilities for choices: {0': 0.0007672925130464137, '1': 0.9992327690124512}
Predicted Answer: 1, True Answer: 1
Probabilities for choices: {0': 0.00023782206699252129, '1': 0.999762237071991}
Predicted Answer: 1, True Answer: 1
Probabilities for choices: {0': 0.9099251365661621, '1': 7.484622619813308e-05}
Predicted Answer: 0, True Answer: 1
Probabilities for choices: {0': 0.9099251365661621, '1': 7.484622619813308e-05}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {0': 0.90991774559021, '1': 8.220189192797989e-05}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {0': 0.00016346470511052758, '1': 0.9998365640640259}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {0': 0.00016346470511052758, '1': 0.9998365640640259}
Predicted Answer: 1, True Answer: 1
Probabilities for choices: {0': 0.00065637280931693, '1': 0.9998395752906799}
Predicted Answer: 1, True Answer: 1
Probabilities for choices: {0': 0.9099165534973145, '1': 8.34962775115855e-05}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {0': 0.99998623132705688, '1': 0.00013765462790615857}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {0': 0.99998623132705688, '1': 0.00013765462790615857}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {0': 0.9998623132705688, '1': 0.0015487611526623368}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {0': 0.9998623132705688, '1': 0.0015487611526623368}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {0': 0.9998623132705688, '1': 0.0015487611526623368}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {0': 0.9998623132705688, '1': 0.0015487611526623368}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {0': 0.90001868969080121634, '1': 0.9098910427993506}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {0': 0.90001868969080121634, '1': 0.9098910427993506}
Predicted Answer: 0, True Answer: 0
Probabilities for choices: {0': 0.9
```