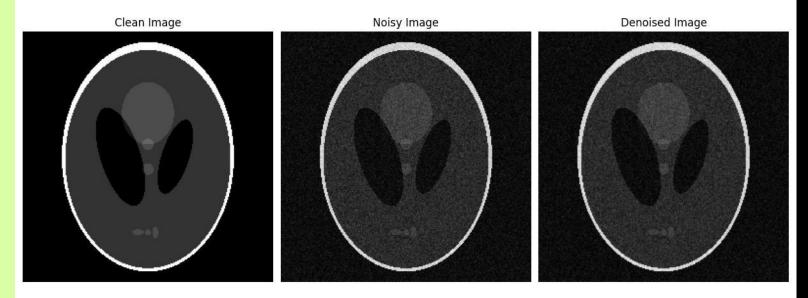
Image Denoising

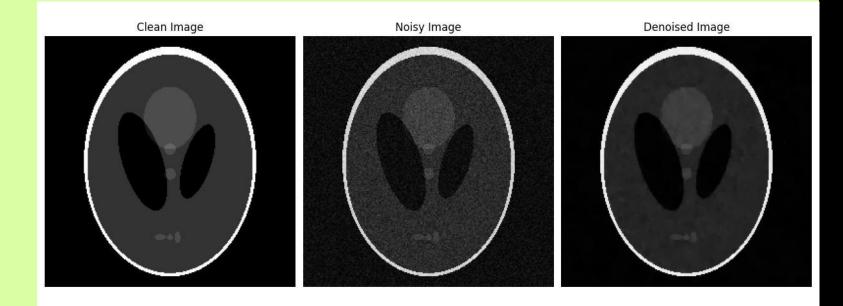
- a. RMSE original = 0.29311
- b. Quadratic prior (a*,b*) = (0.396,_)
- c. RRMSE quad(a*,b*) = 0.2901
- d. RRMSE quad $(1.2a^*,b^*) = 29028$
- e. RRMSE quad $(0.8a^*,b^*) = 29028$
- f. Huber prior $(a^*,b^*) = 1.0, 2.5e-5$
- g. RRMSE huber $(a^*,b^*) = 0.25849$
- h. RRMSE huber $(1.2a^*,b^*)$ = NA
- i. RRMSE huber $(0.8a^*,b^*) = 0.29289$
- j. RRMSE huber (a*,1.2b*) = 0.25847
- k. RRMSE huber (a*,0.8b*) = 0.25874

- a. Discontinuity adaptive function prior $(a^*,b^*) = 1.0$, 2.5e-5
- b. RRMSE daf $(a^*,b^*) = 0.2585$
- c. RRMSE daf (1.2a*,b*)= NA
- d. RRMSE daf $(0.8a^*,b^*) = 0.2928$
- e. RRMSE daf (a*,1.2b*) = 0.2585
- f. RRMSE daf (a*,0.8b*) = 0.2587

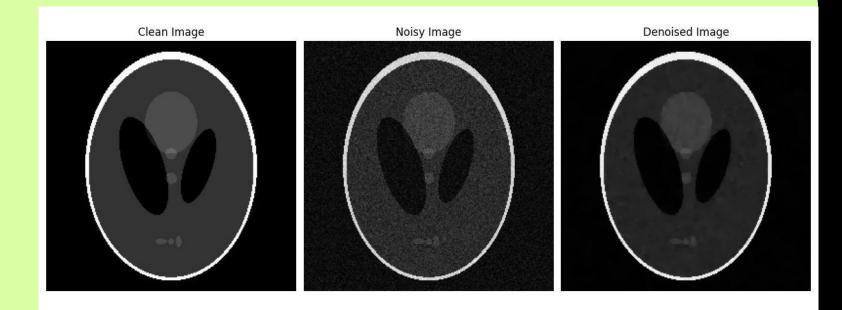
Quadratic



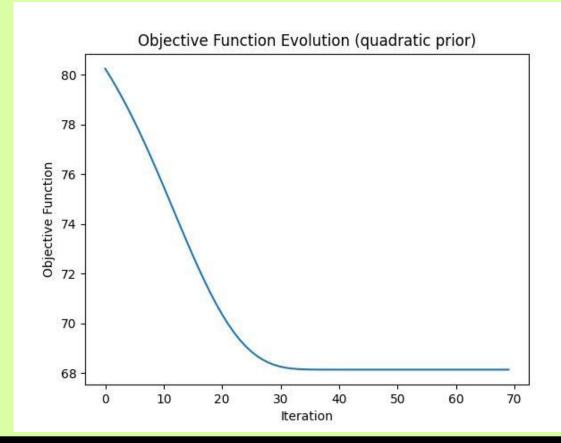
Huber



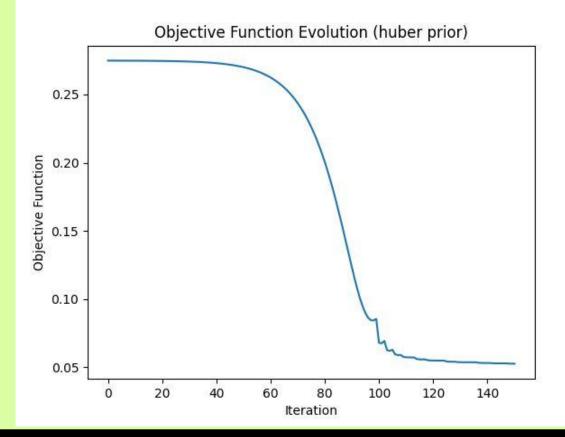
Daf



Quadratic

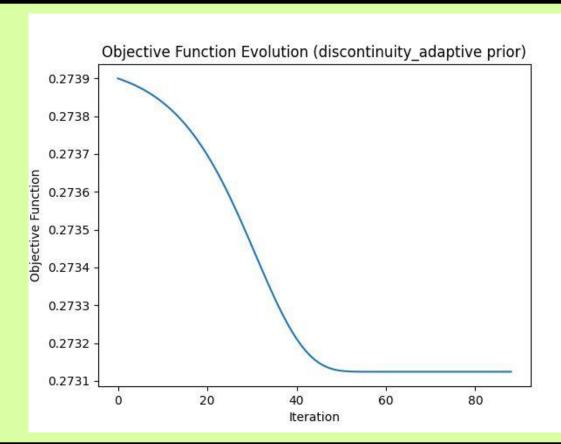


Huber



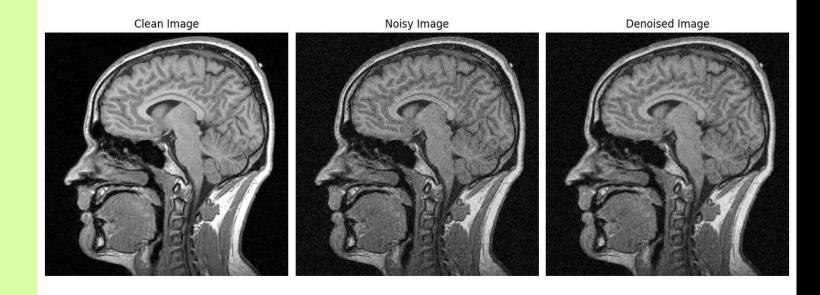
Daf



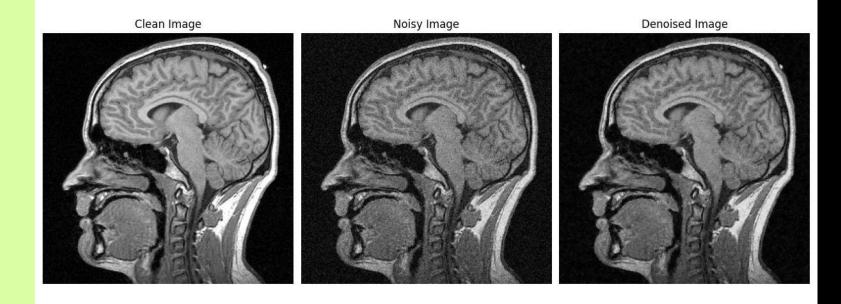


- a. RMSE original = 0.20111
- b. Quadratic prior (a*,b*) = 0.06418,_
- c. RRMSE quad(a^*,b^*) = 0.19345
- d. Huber prior $(a^*,b^*) = 0.79269, 0.005792$
- e. RRMSE huber (a*,b*) = 0.19338
- f. Discontinuity adaptive function prior (a*,b*) = 0.9409,0.00139
- g. RRMSE daf $(a^*,b^*) = 0.19345$

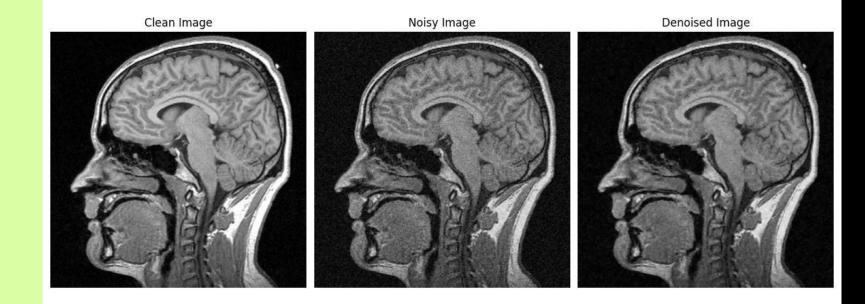
Quadratic



Huber



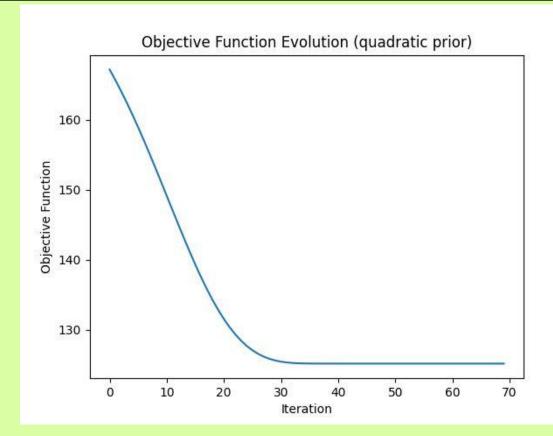
Daf



Part-2

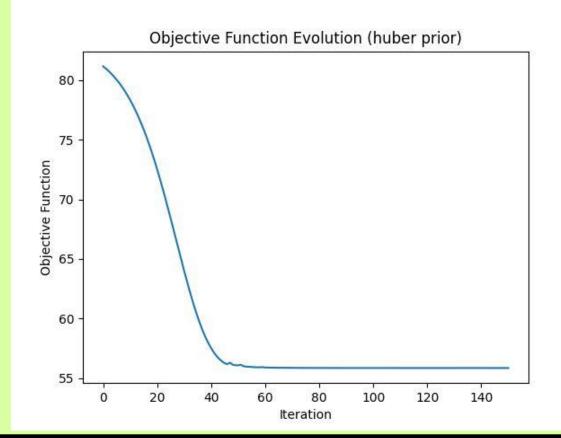
Quadratic





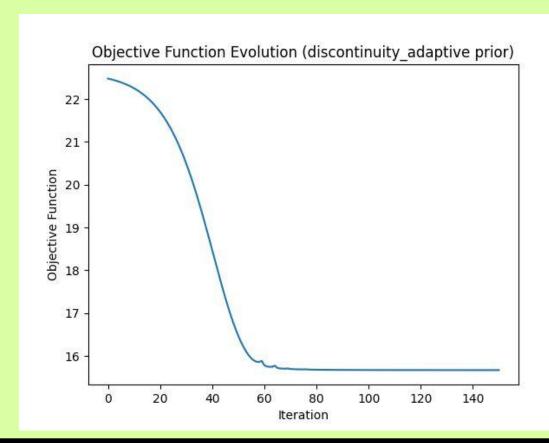
Huber





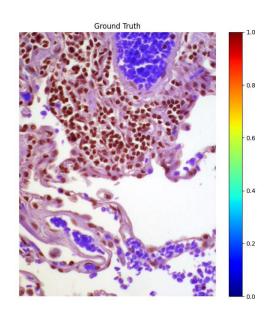
Daf

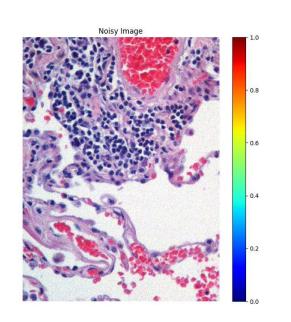




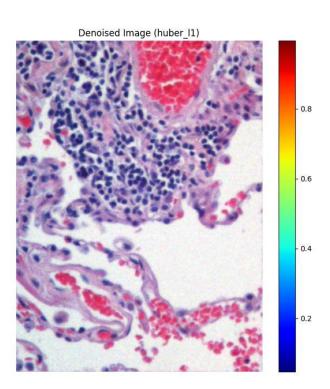
- a. RMSE original = 0.29311
- b. RRMSE Squared_ $l2(a^*,b^*) = 0.17954$
- c. RRMSE Huber_l1(a*,b*) = 0.17747
- d. RRMSE L2 $(a^*,b^*) = 0.17560$

Original + Noisy

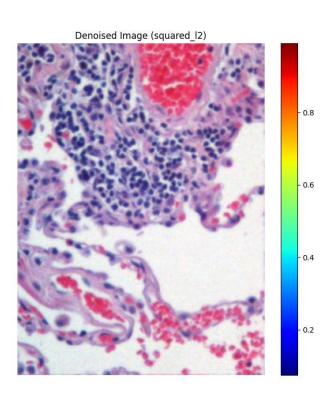




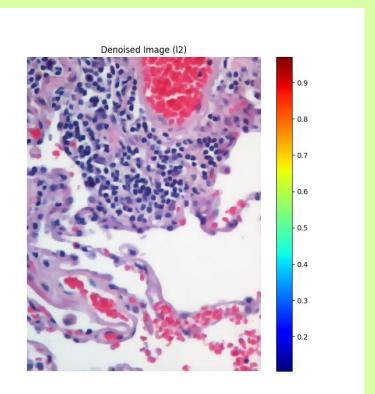
Huber_L1



squared_L2

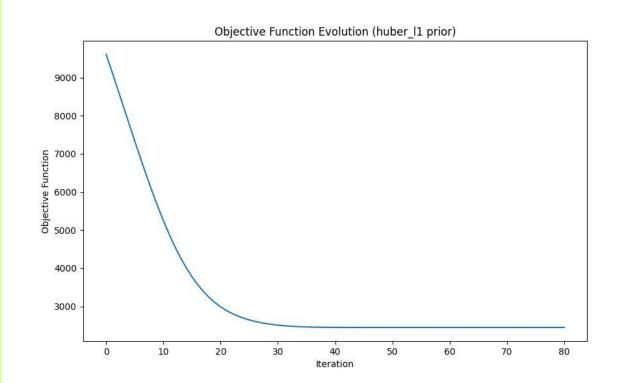


12



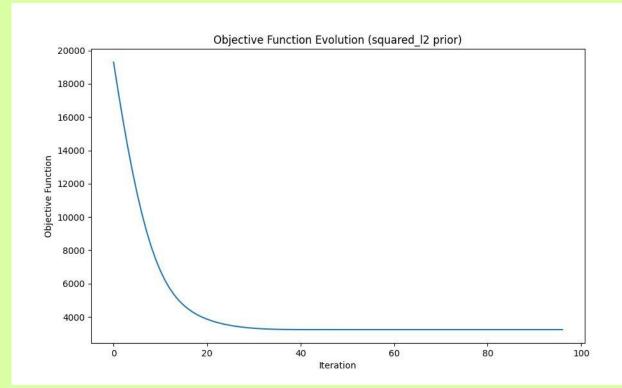
Huber_L1





squared_L2





L2

