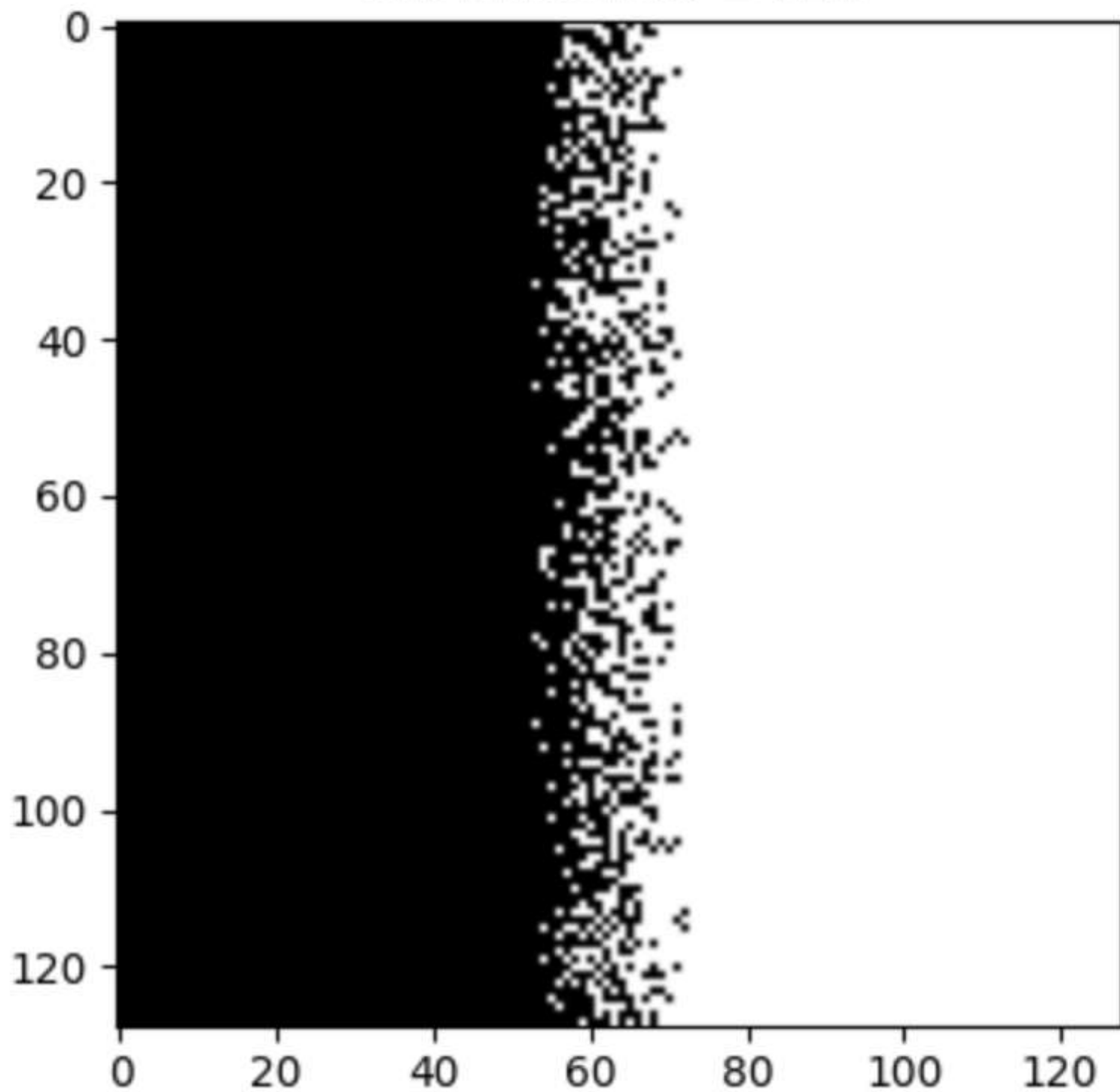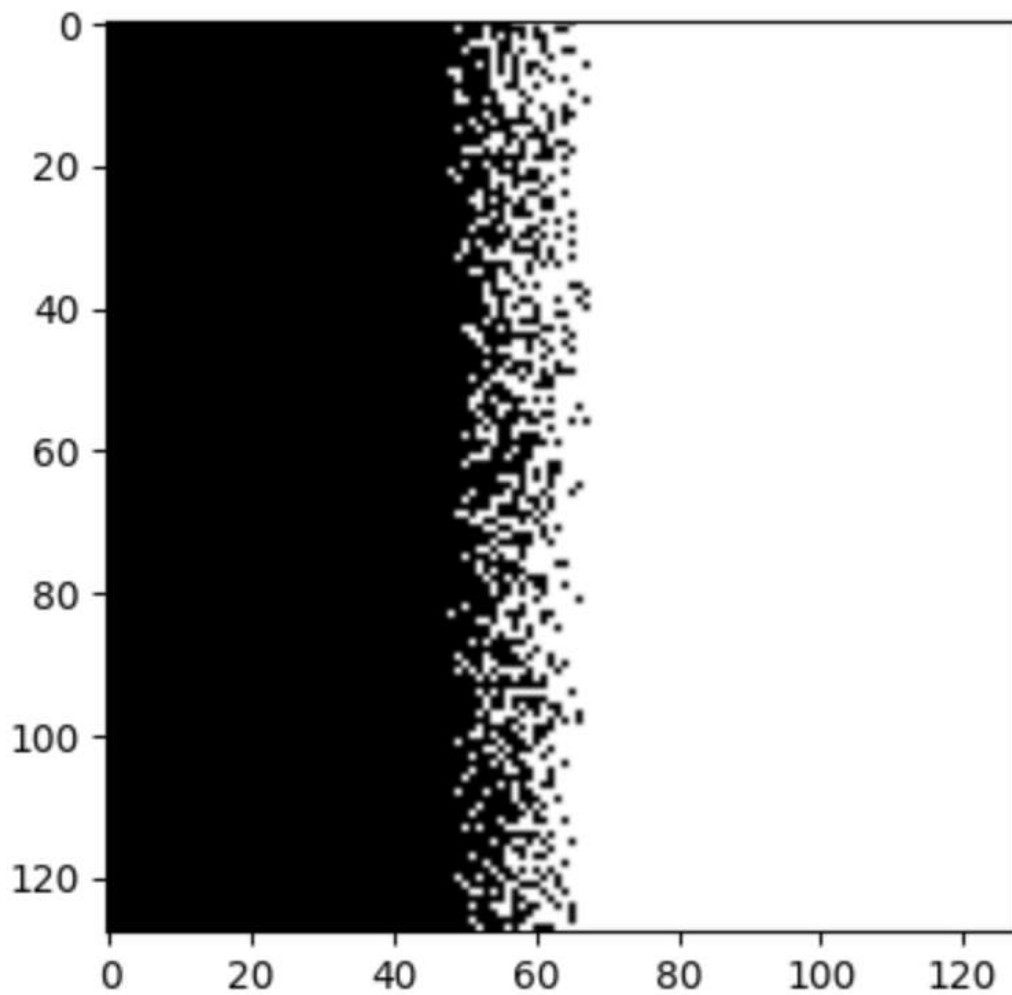GA Threshold = 144

GAE Rule-based

* GA Result → Best threshold found = 144
* GAE Rule-based result → learned rule = 0.65 × pixel mean + 40
1) Original image → synthetic gradient + noise
2) GA thresholding → clear black & white split at threshold = 144