

Mahim Ali, Ruckshada Khan, Justin Wang

CSCI 39534

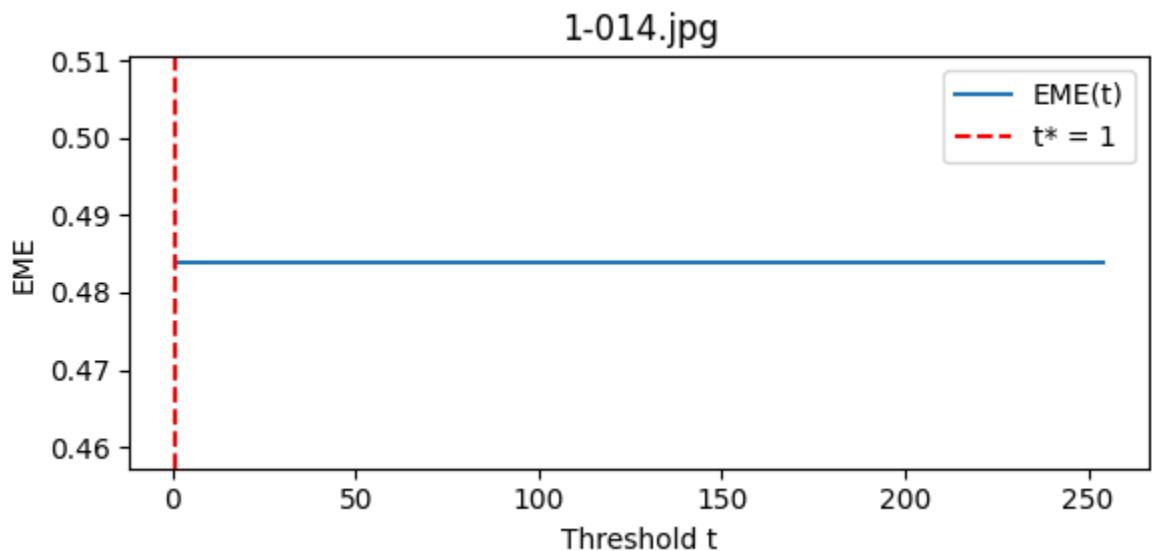
Alex Liew

4/20/25

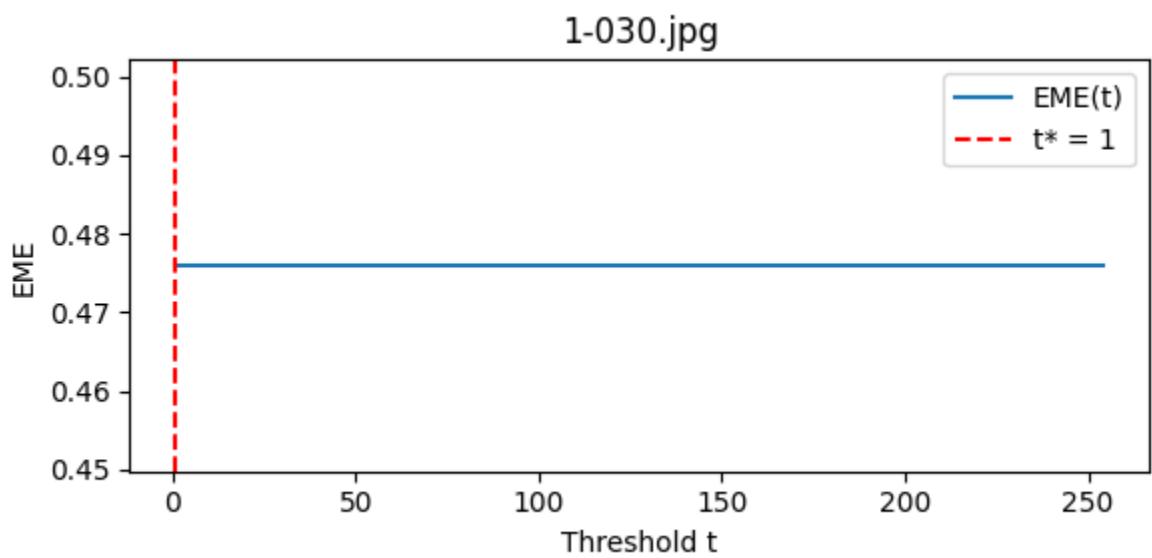
Project Part 1 Report:
Mammogram Contrast Enhancement for Breast Cancer Detection

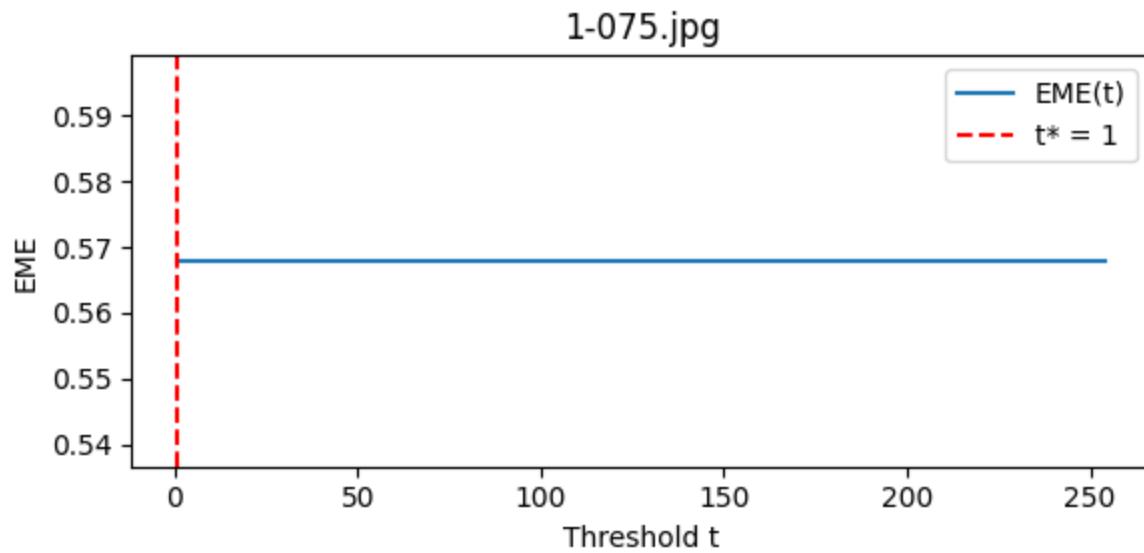
Student 1: Mahim Ali

1. Plot -

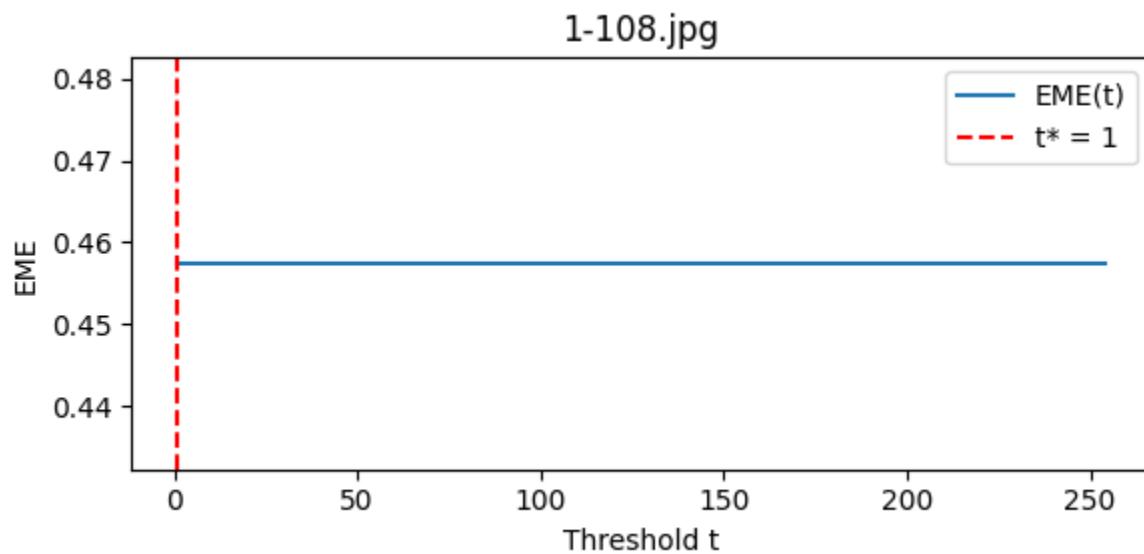


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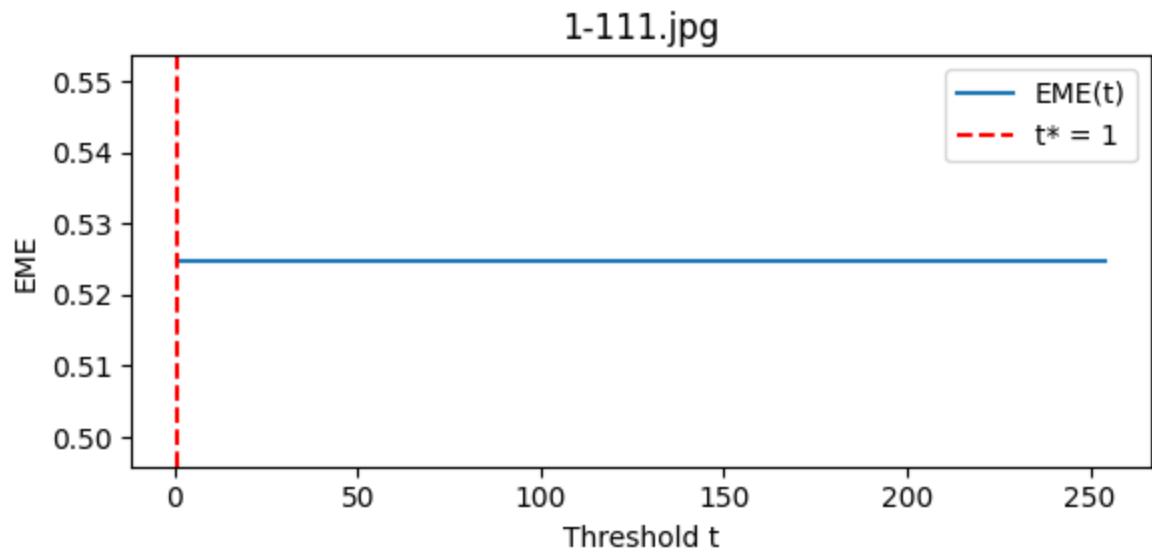




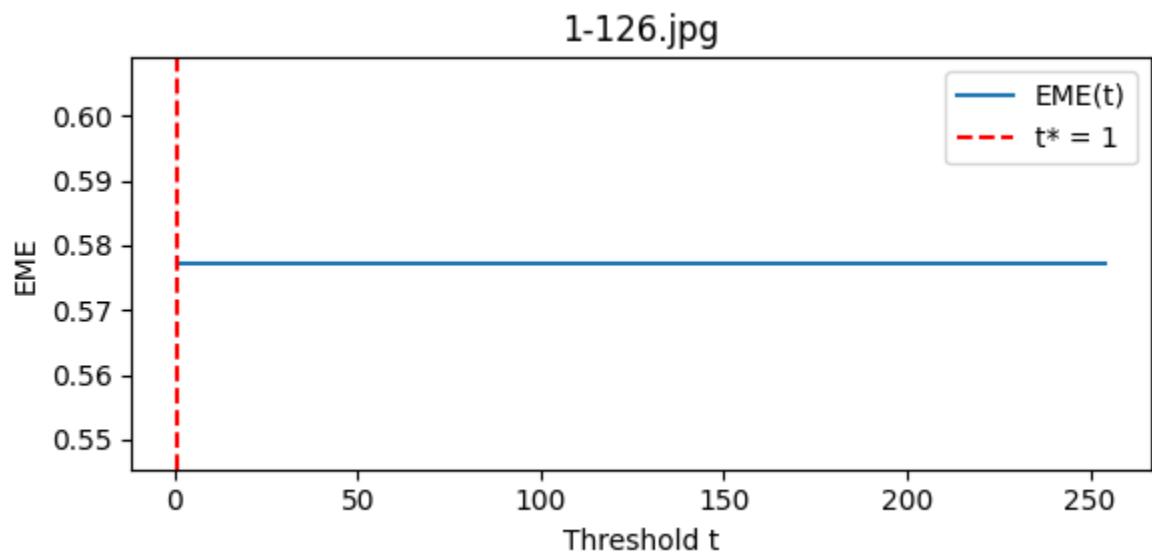
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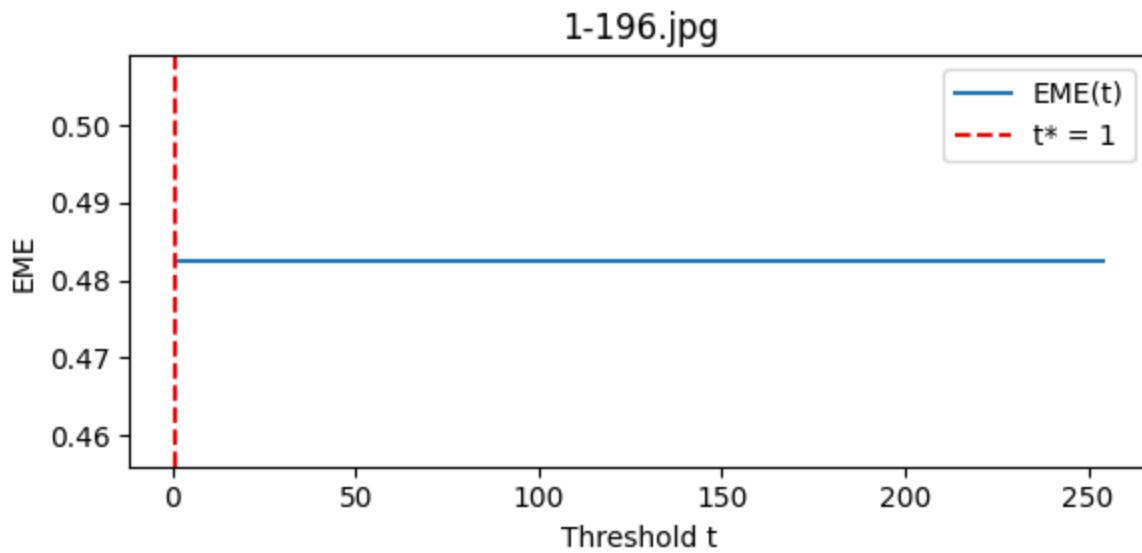
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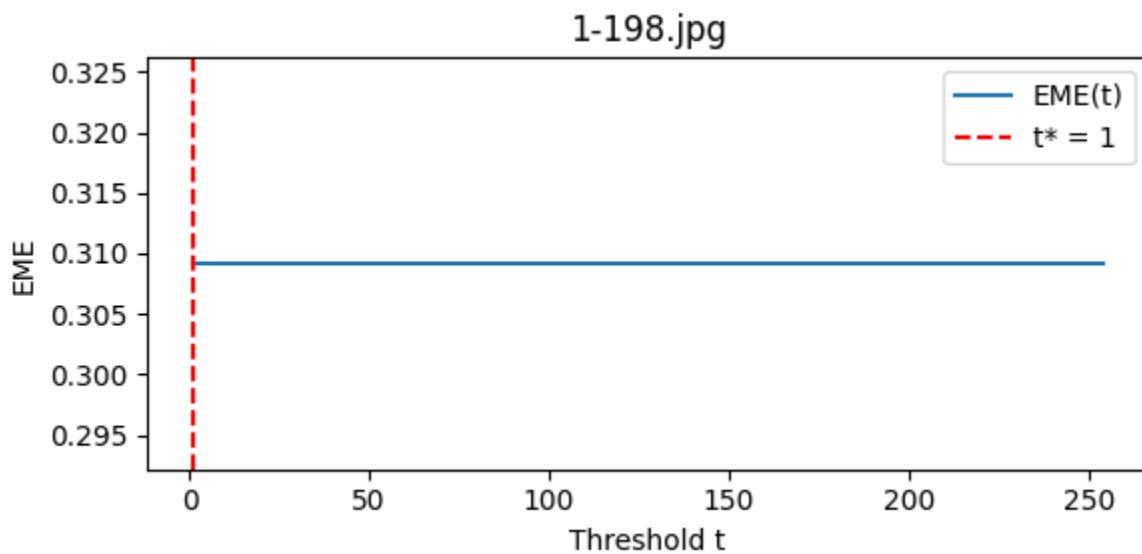
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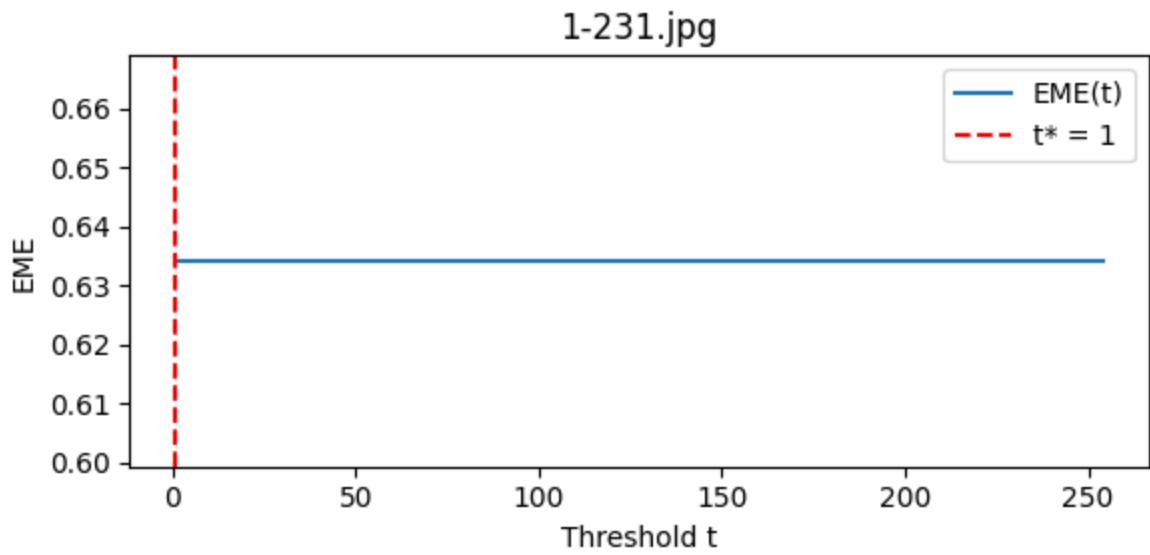
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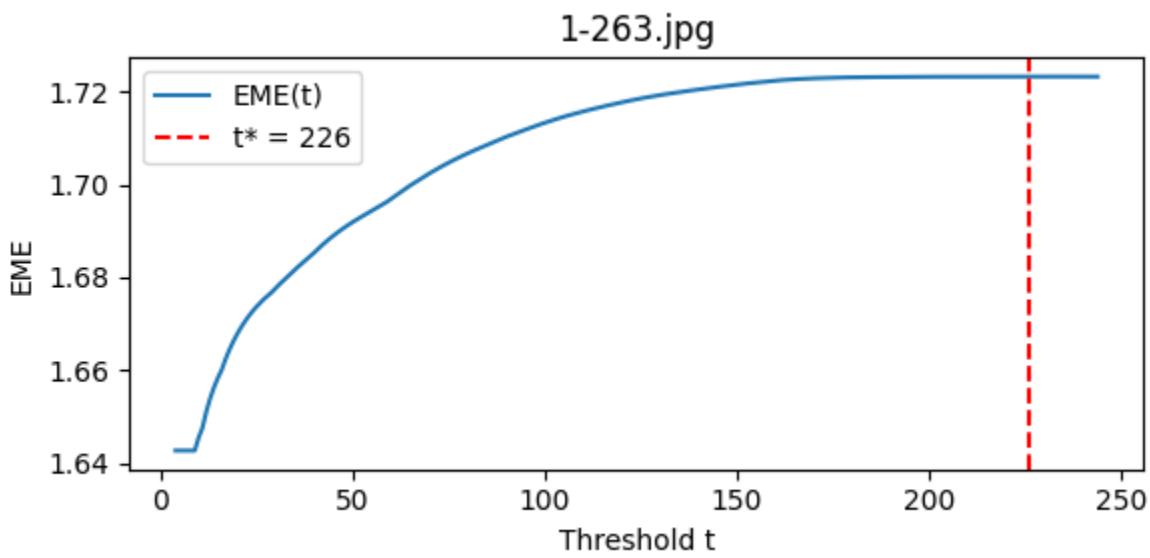
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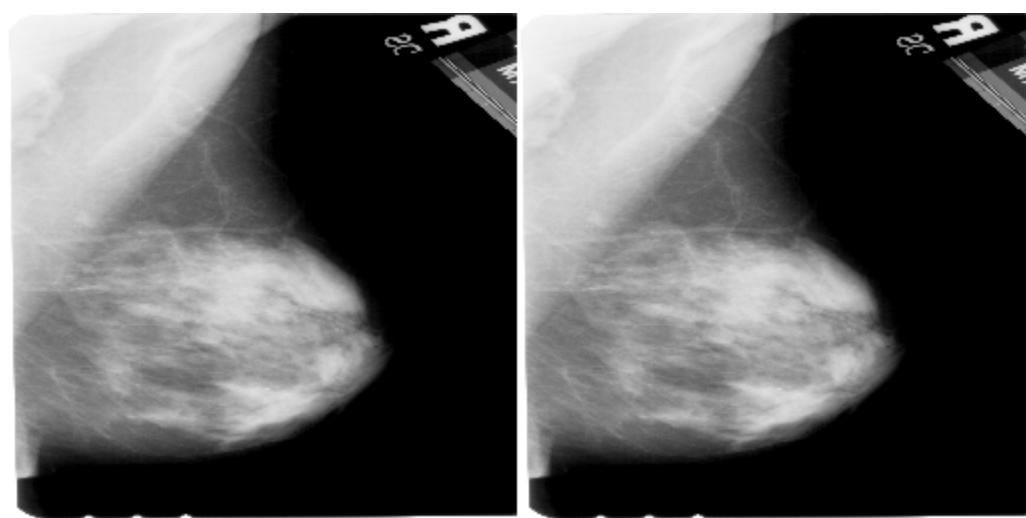
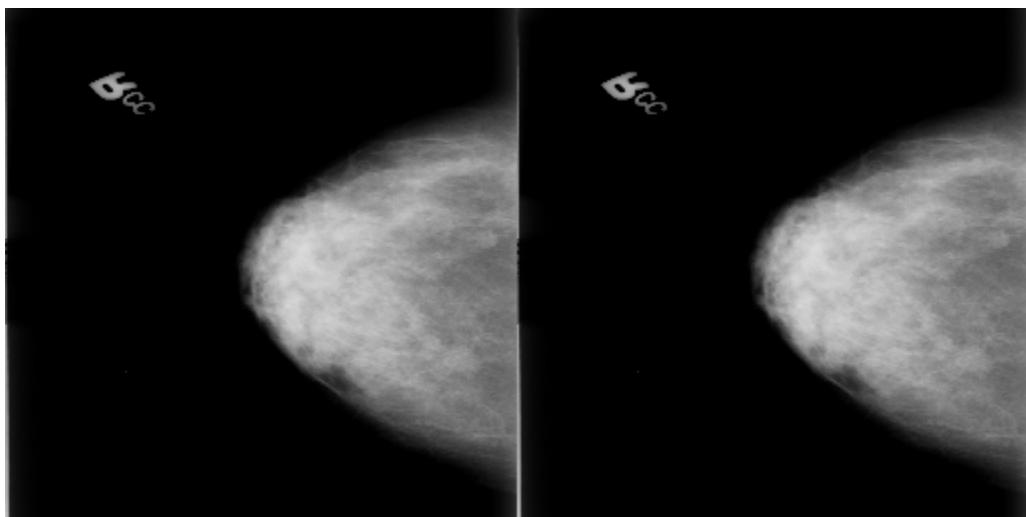


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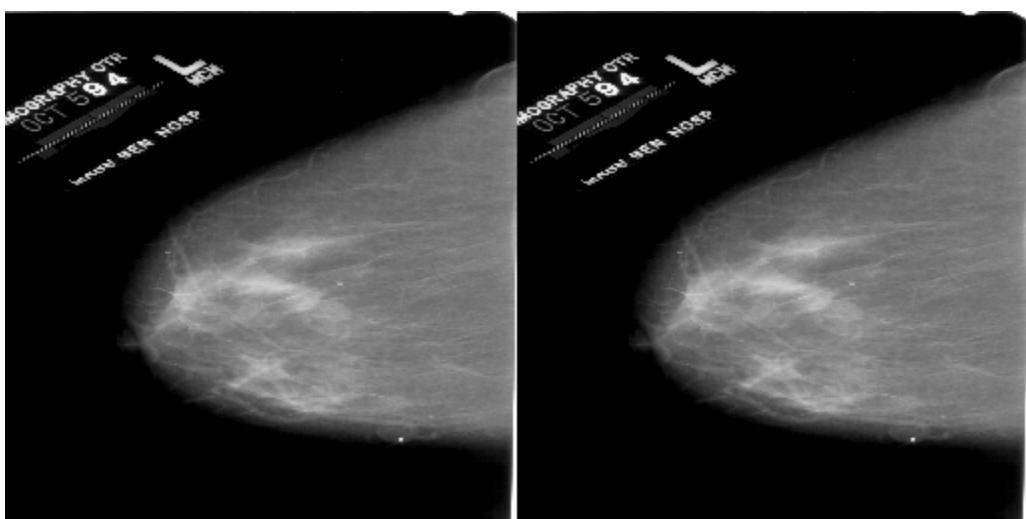


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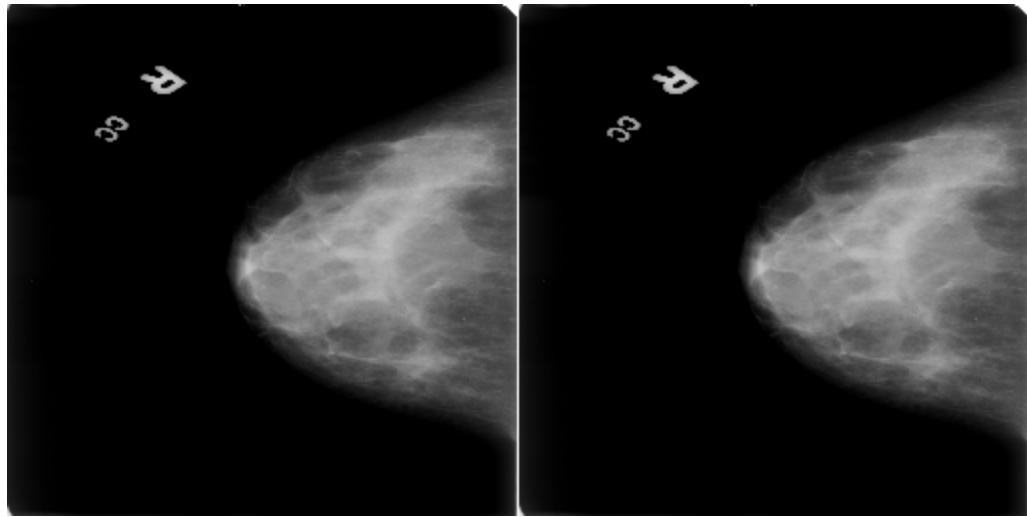
11. Comparison -



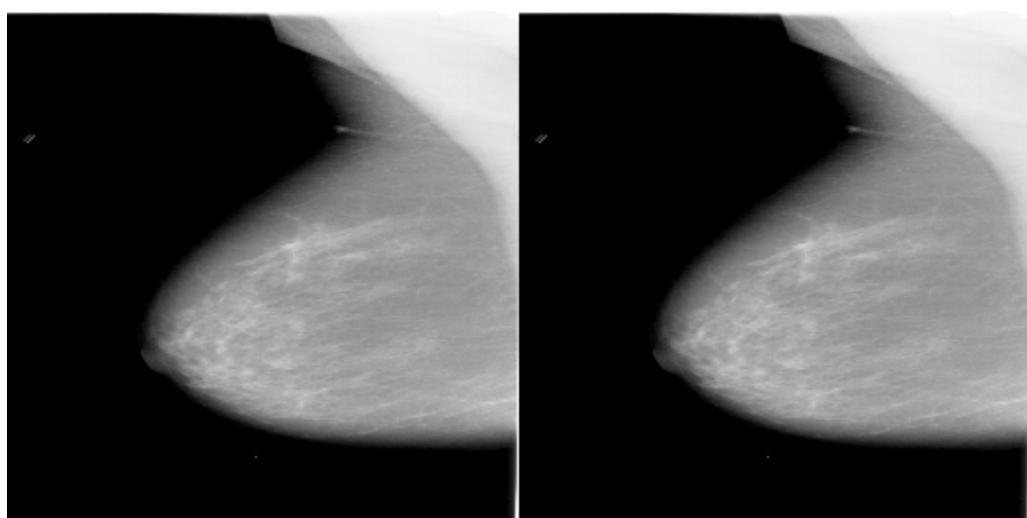
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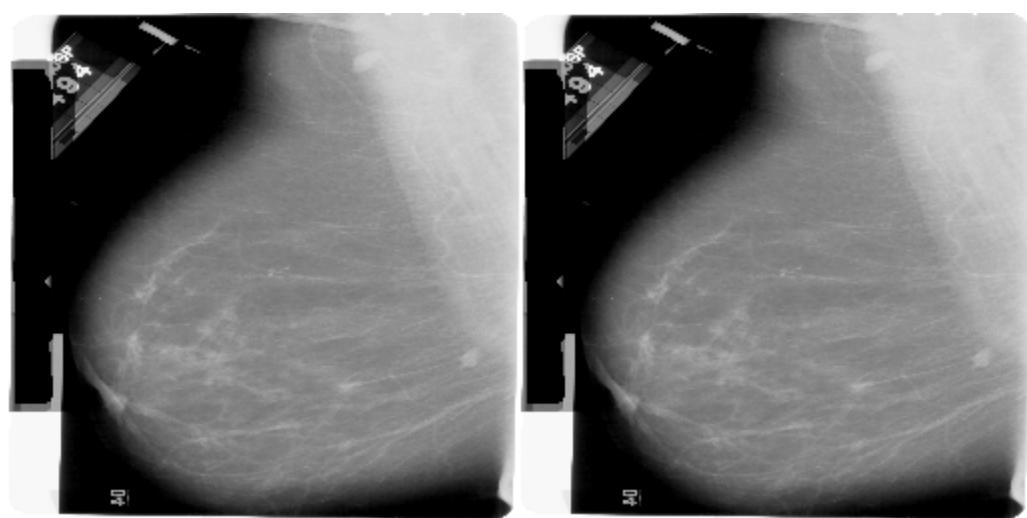
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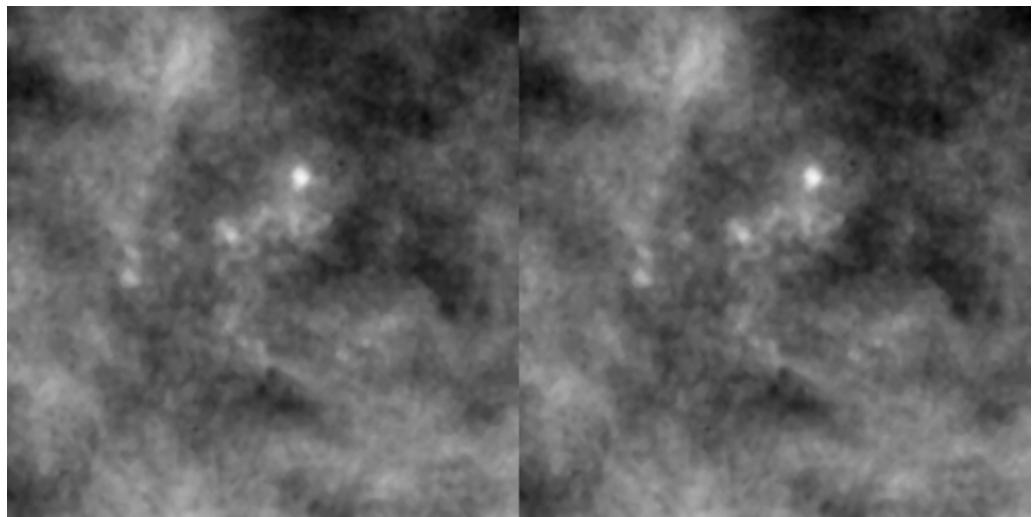
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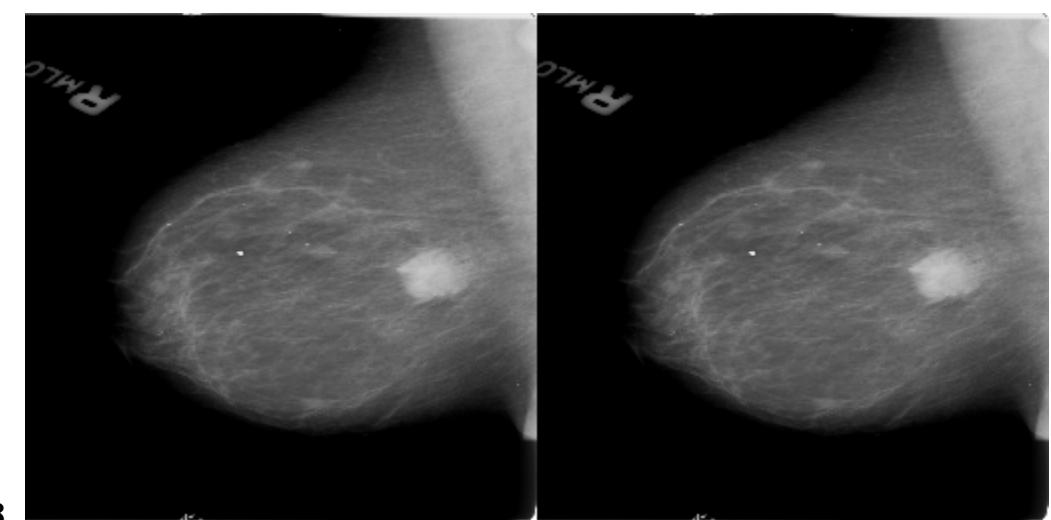
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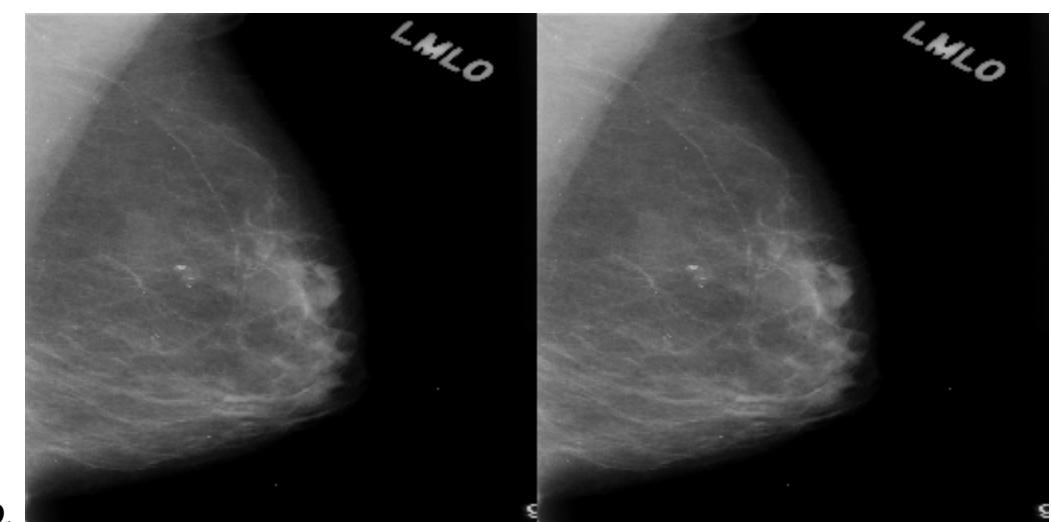
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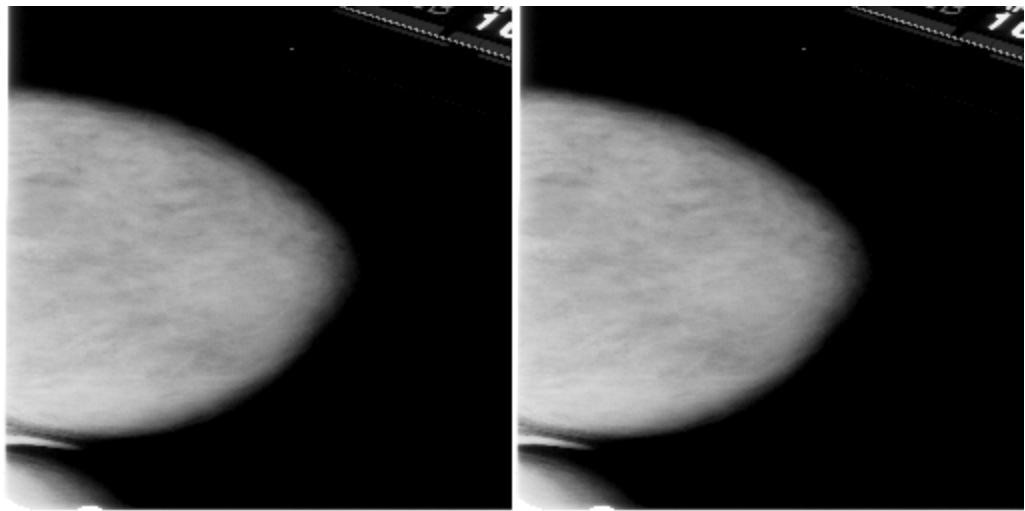
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18.



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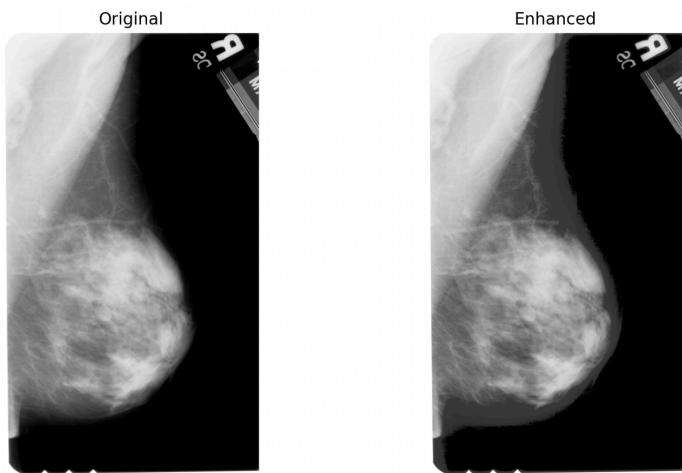


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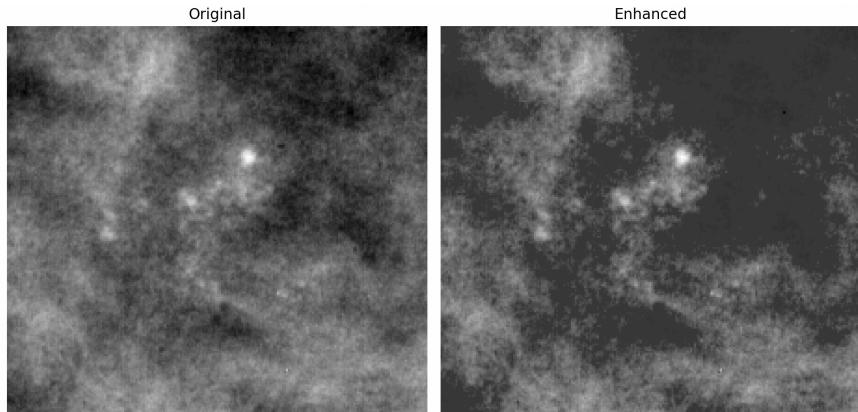
Student 2: Ruckshada Khan

Enhanced Images:

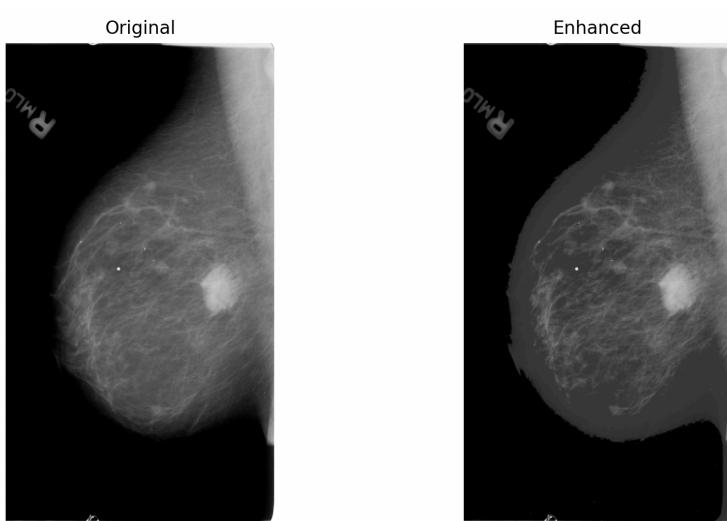
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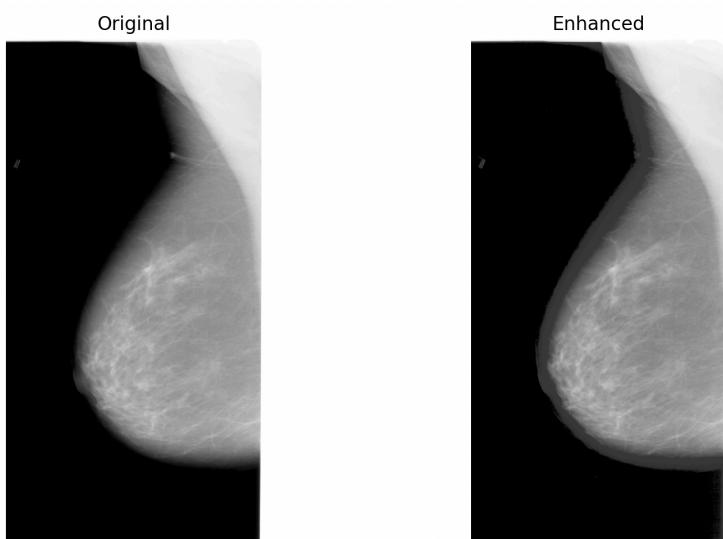
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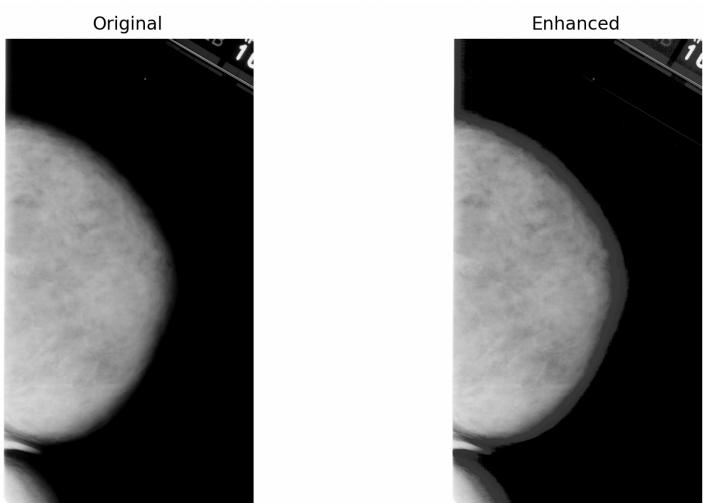
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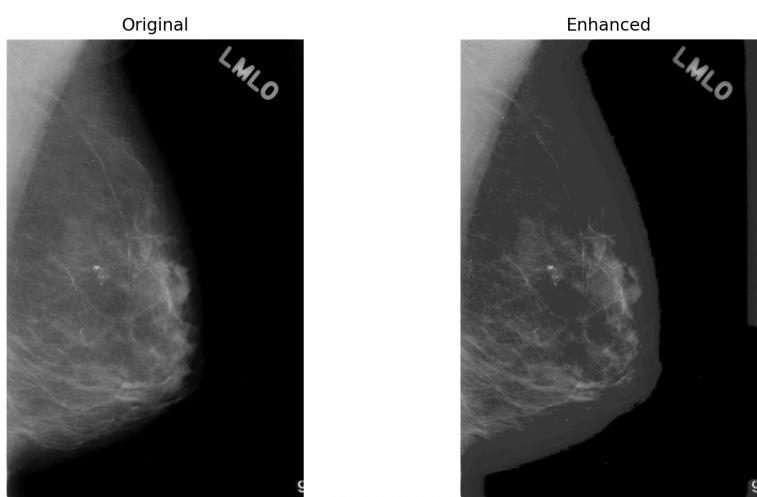
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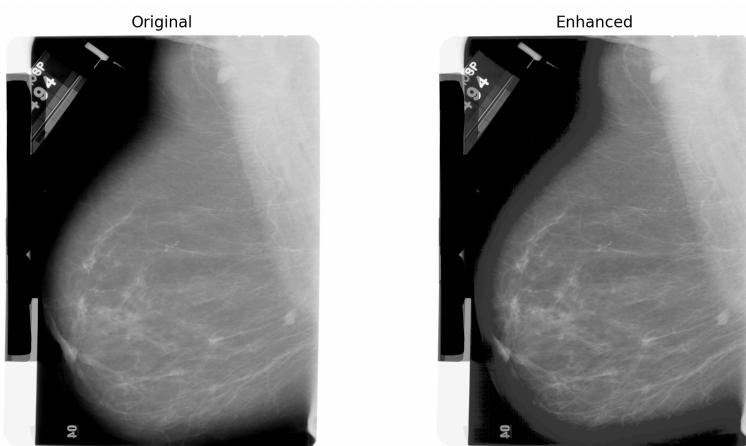
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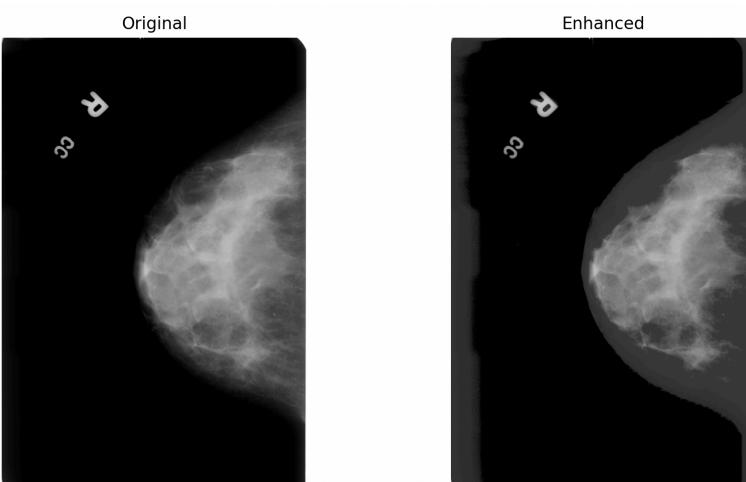
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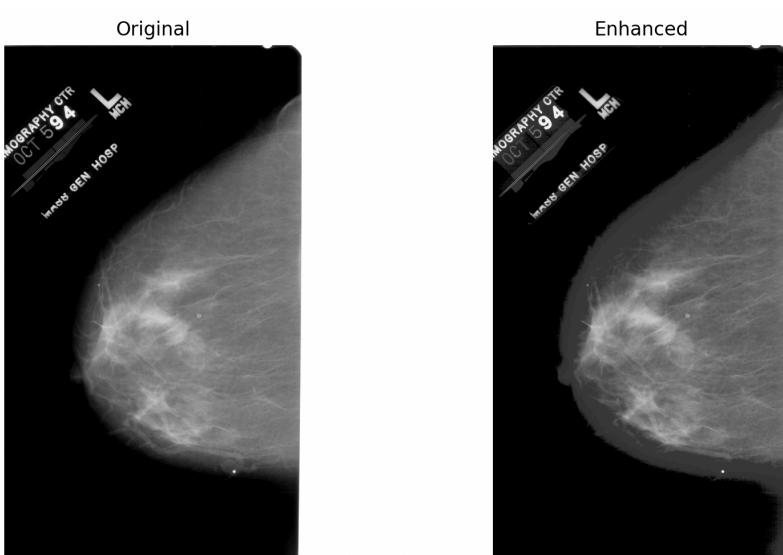
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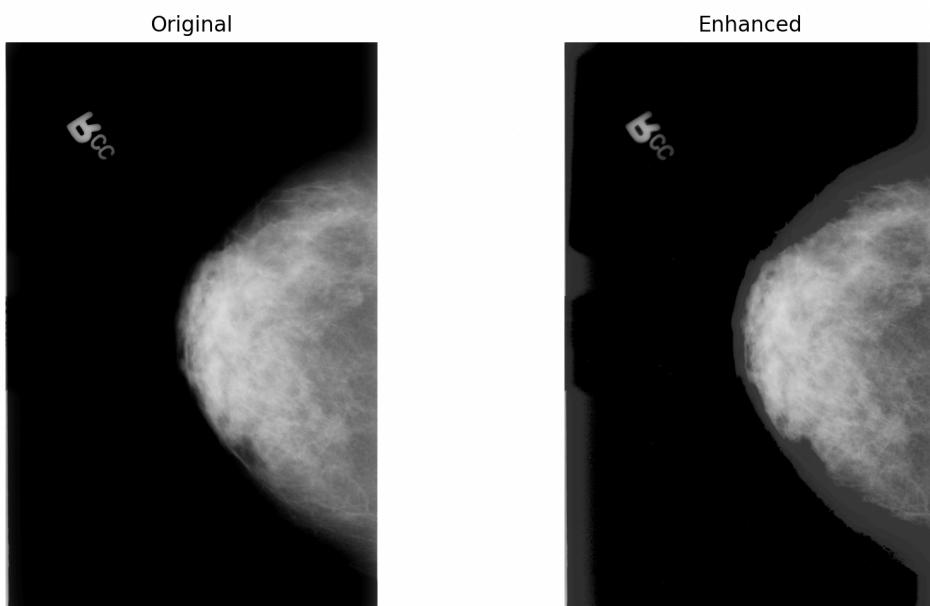
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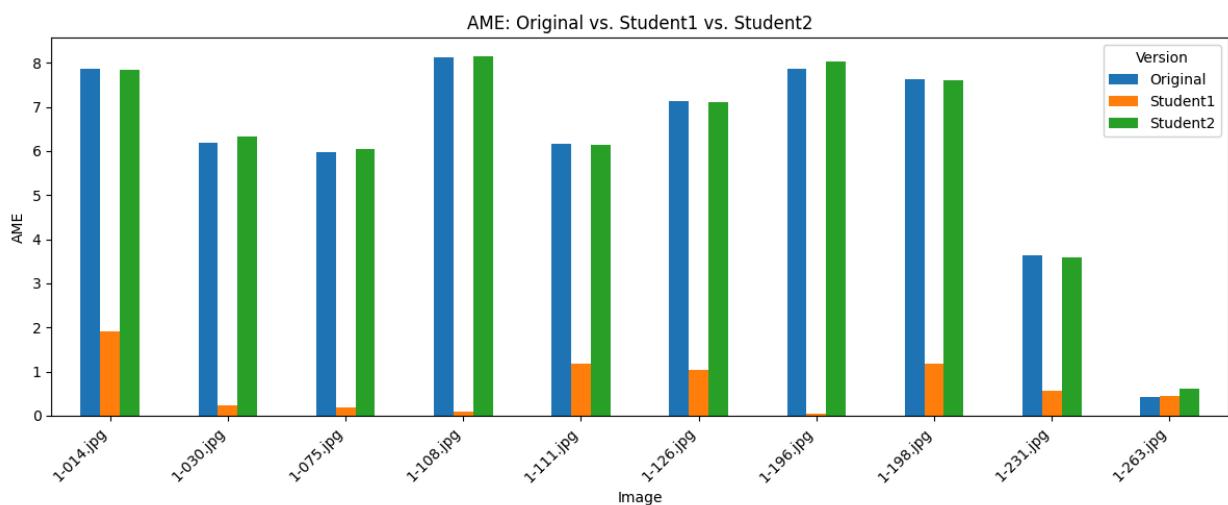
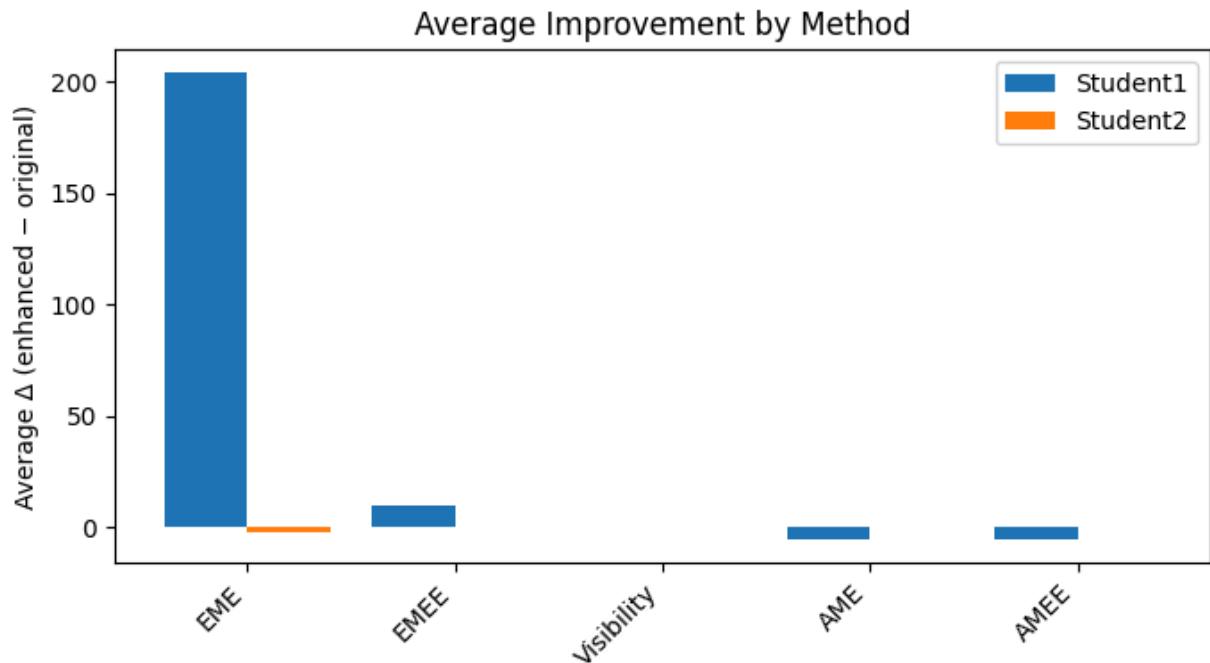


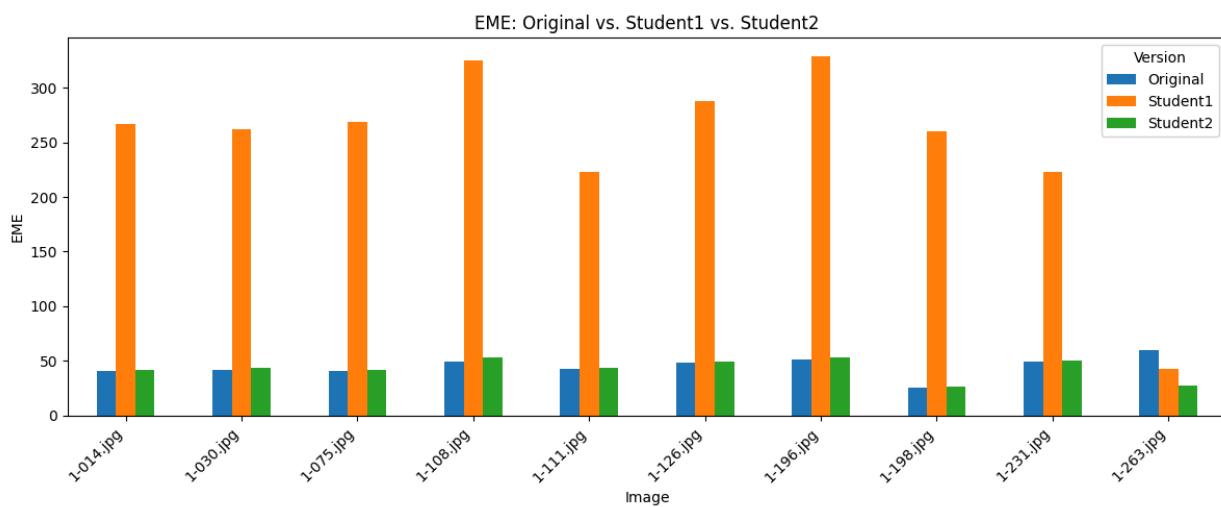
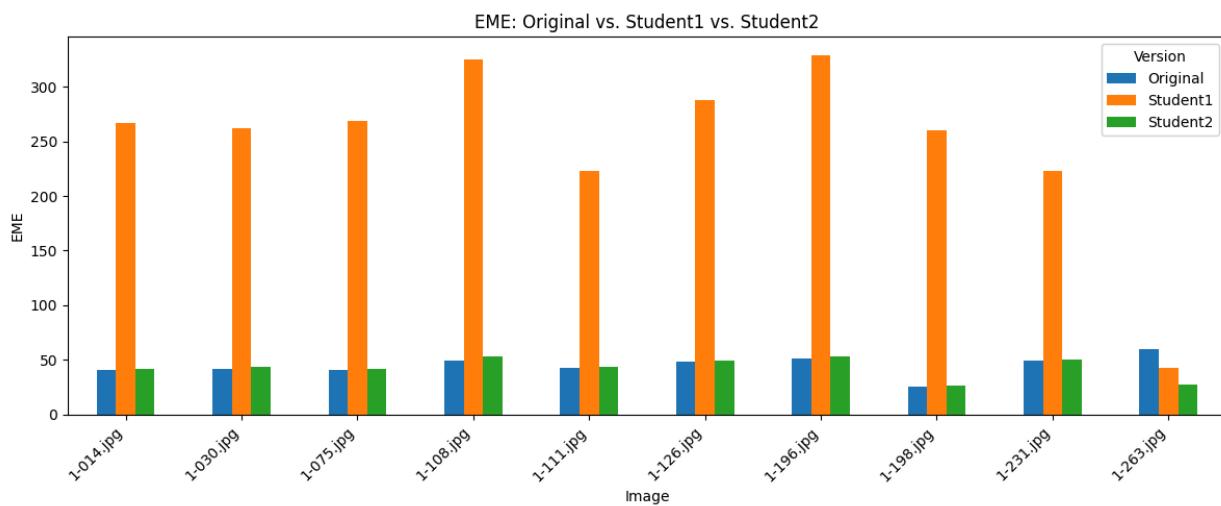
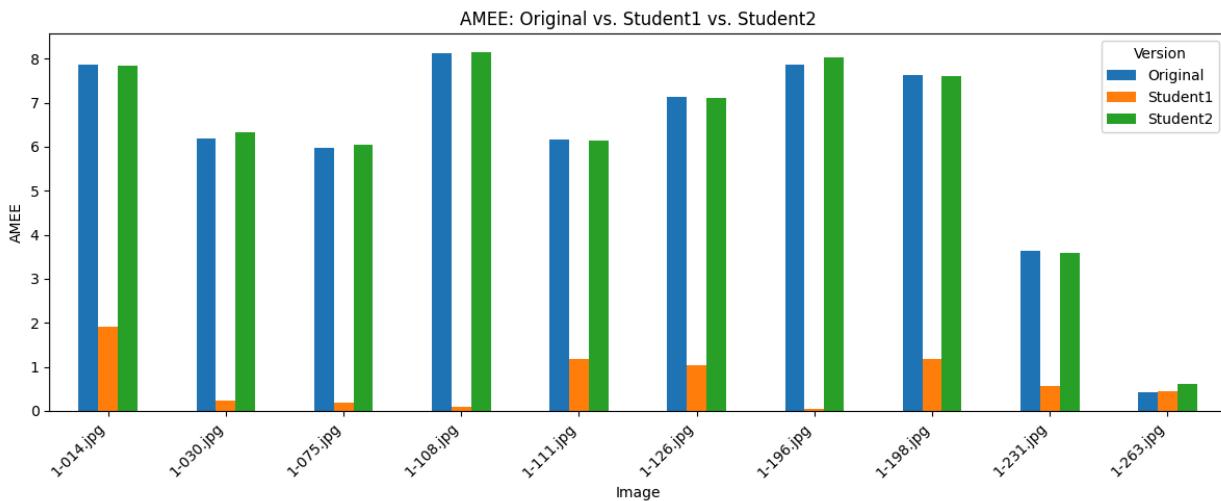
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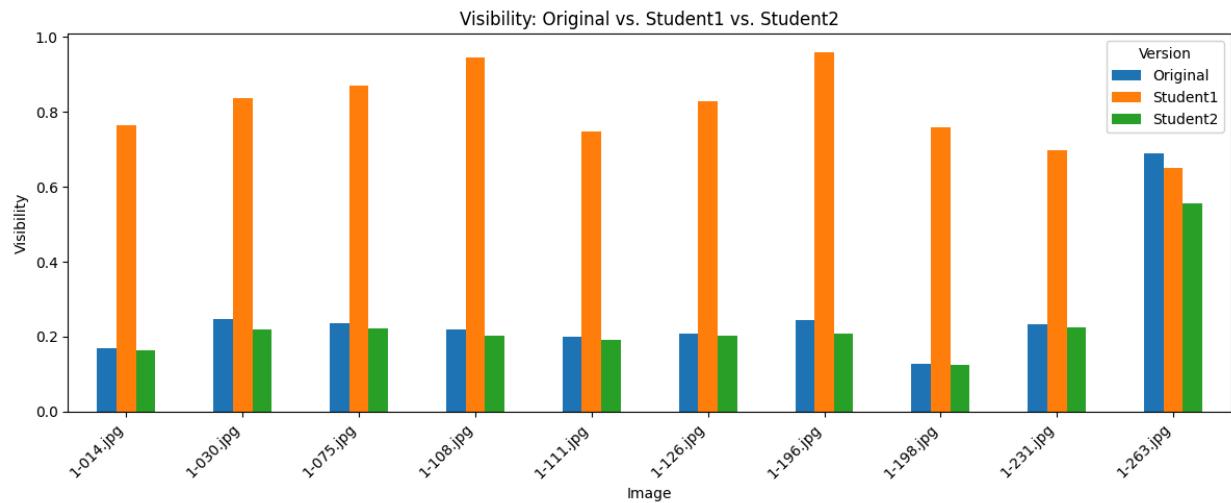


10)



Student 3: Justin Wang*Plots:*





Metrics:

<i>Metric</i>	<i>Original</i>	<i>Piecewise Contrast-Stretched</i>	<i>Final Enhanced Images</i>
EME	45.20	248.89	42.94
EMEE	2.260	12.445	2.147
Michelson Contrast	0.2571	0.8058	0.2317
AME	6.094	0.689	6.147
AMEE	6.094	0.689	6.147