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**CS516 - Computer Vision**

**Prof. Russell Butler**

Students

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| Bhoopalsinh Musale | 002269332 |
| Sara Eskandarirad | 002279327 |

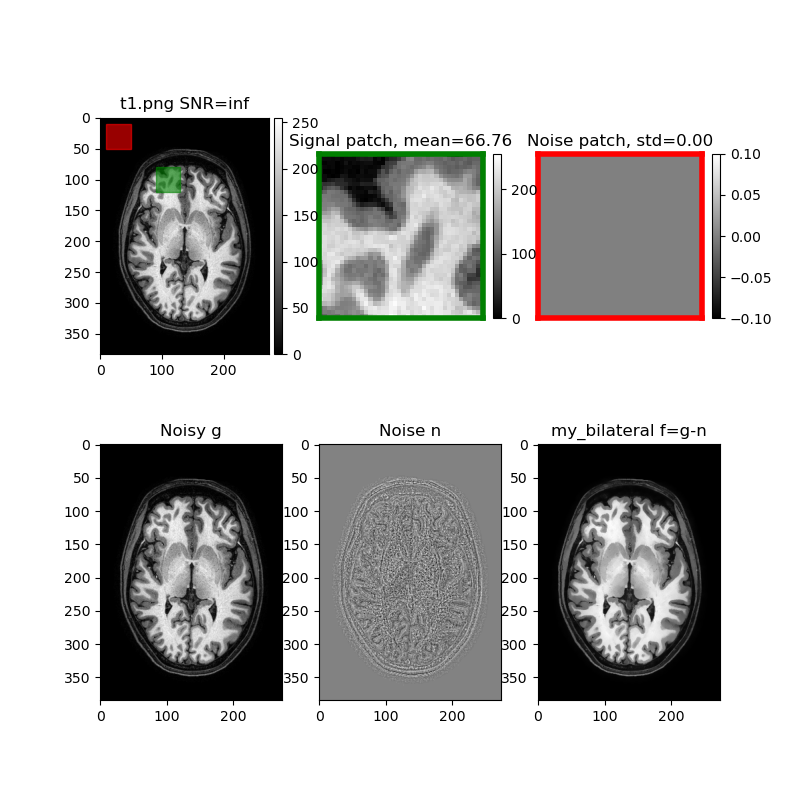
**Part 1: Denoising**

* Implemented Bilateral filtering.
* Signal to Noise ratio is shown respective output images.

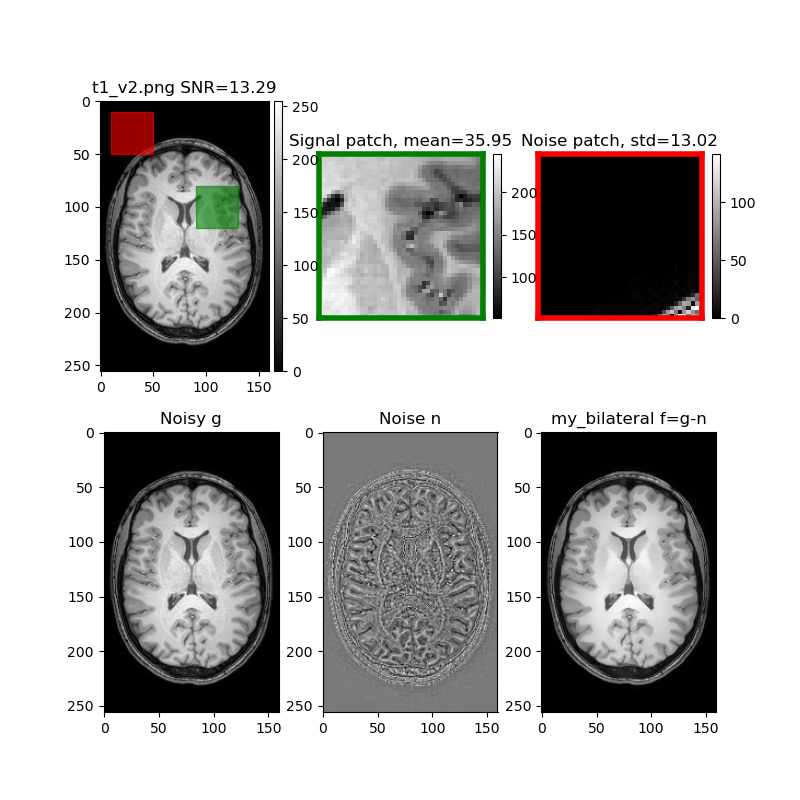
**Bilateral Filter Code**



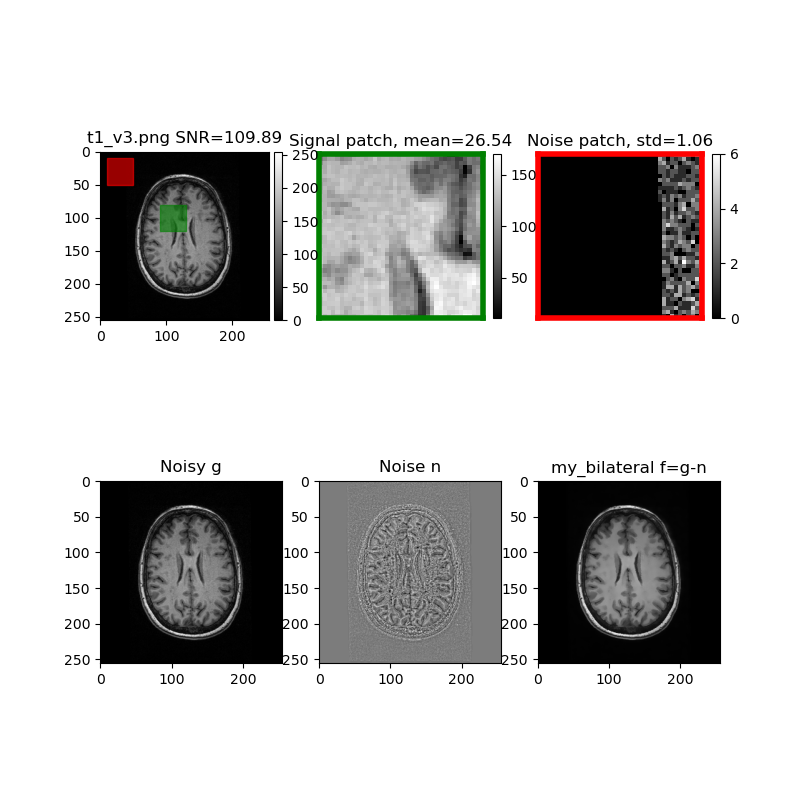
**Output of t1.png**



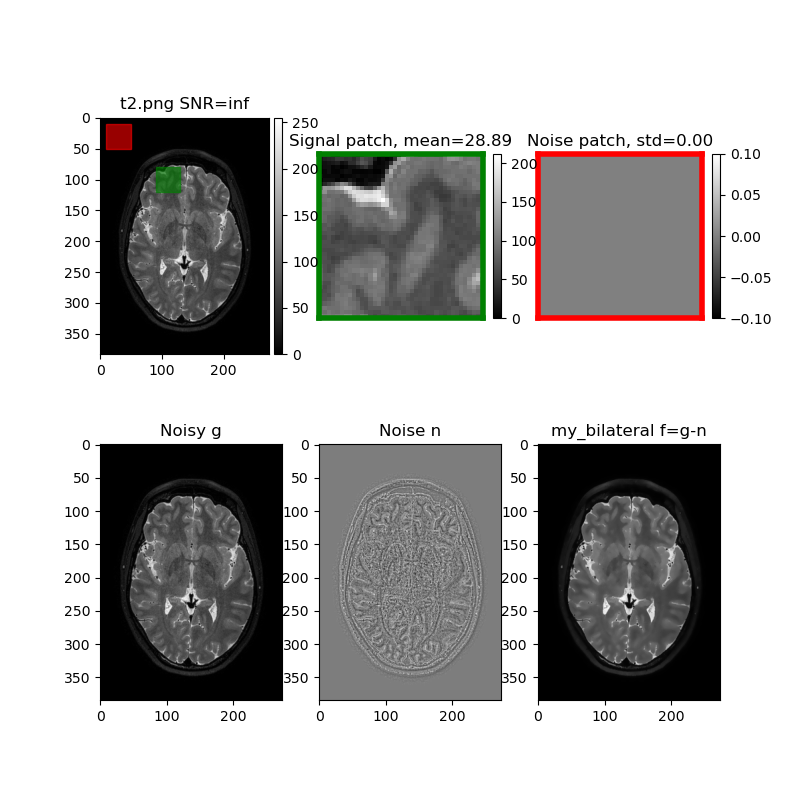
**Output of t1\_v2.png**



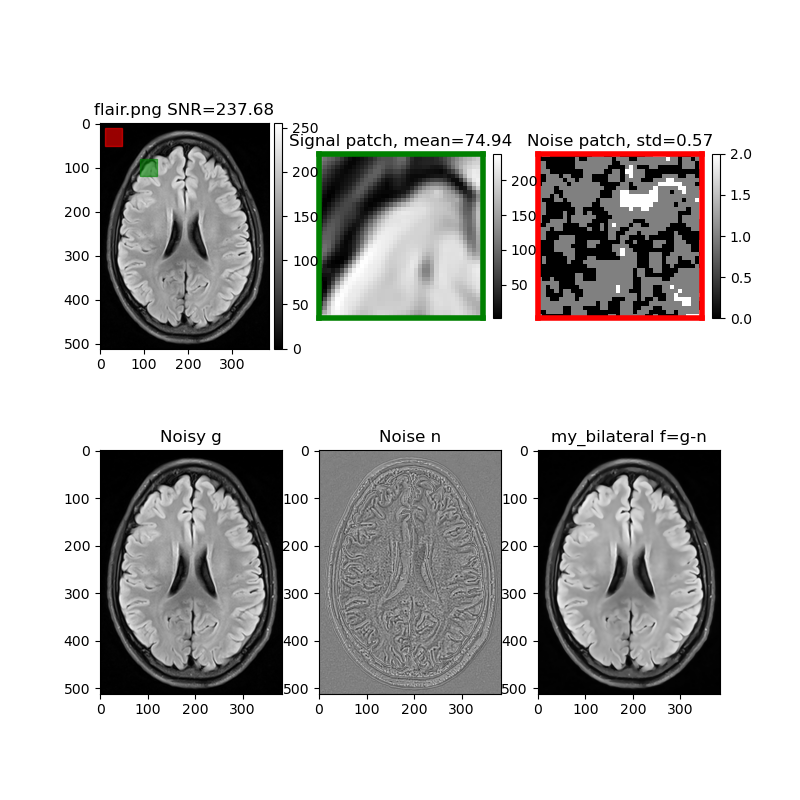
**Output of t1\_v3.png**



**Output of t2.png**



**Output of flair.png**

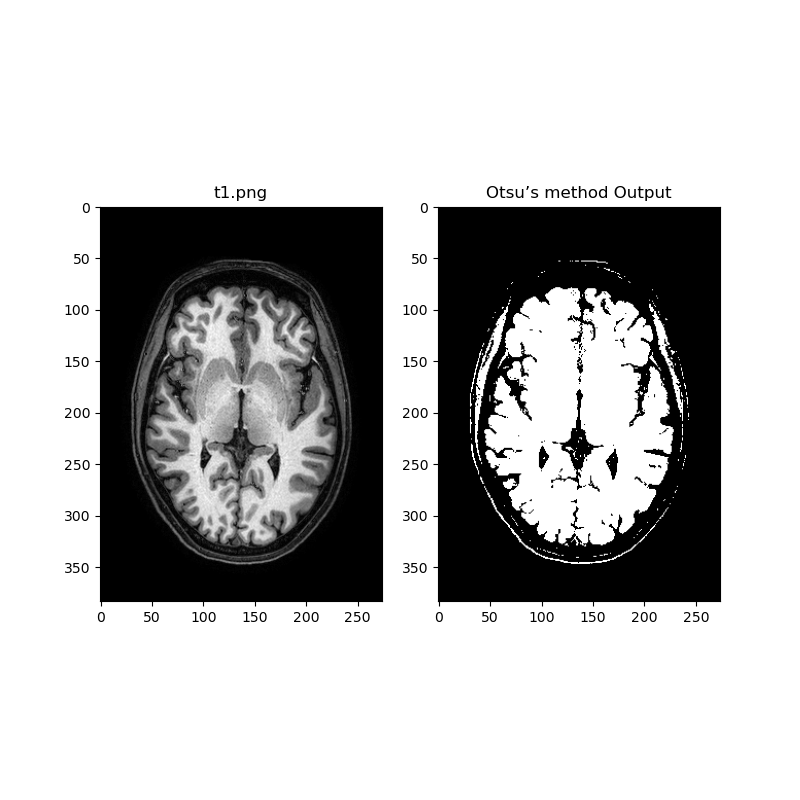


**Part 2: Segmentation**

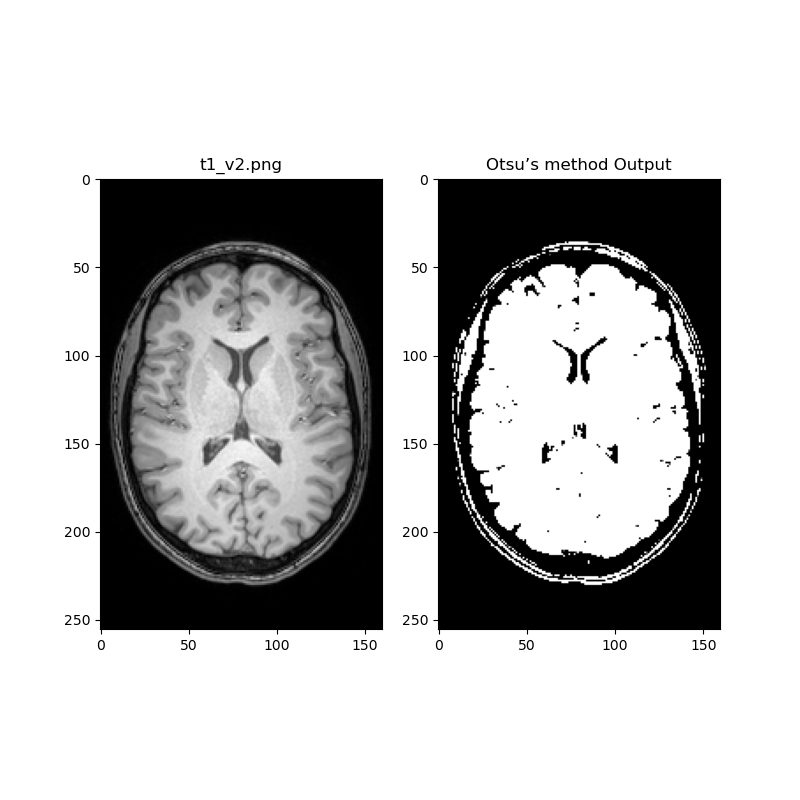
* Implemented Otsu’s method.

**Otsu’s Method Code** 

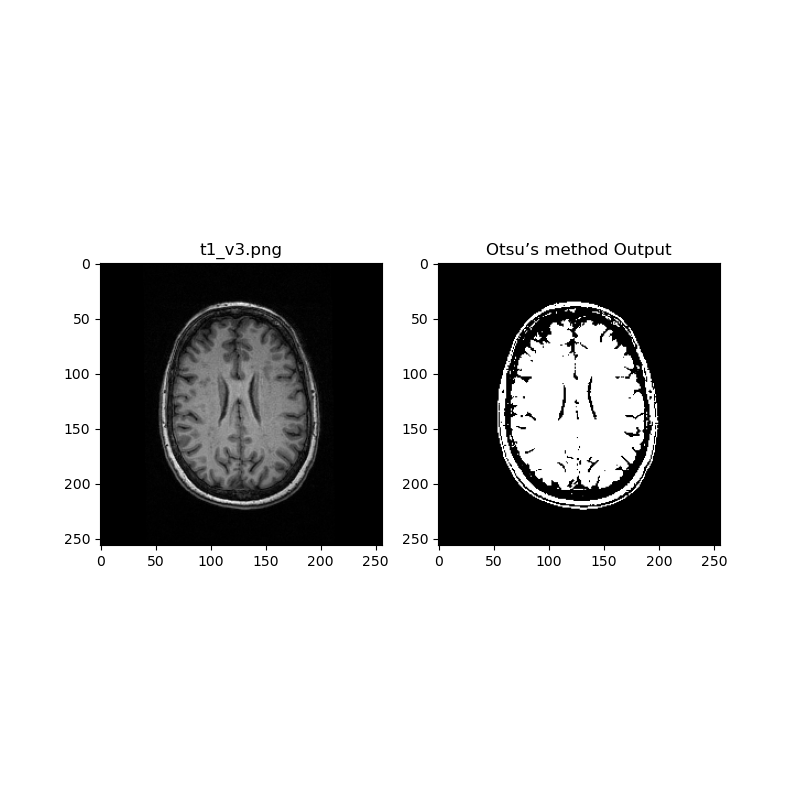
**Output of t1.png**



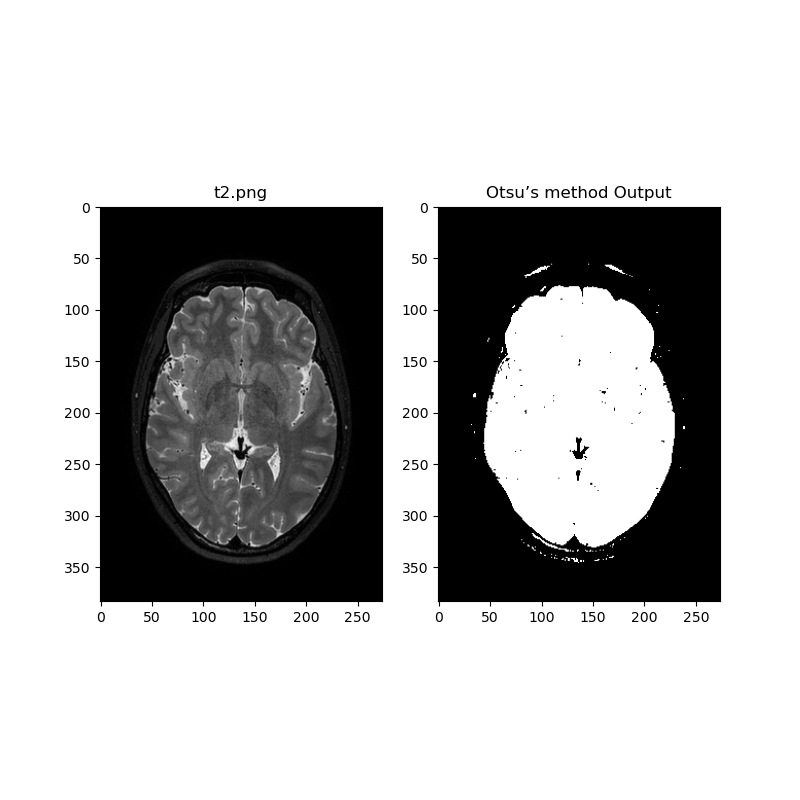
**Output of t1\_v2.png**



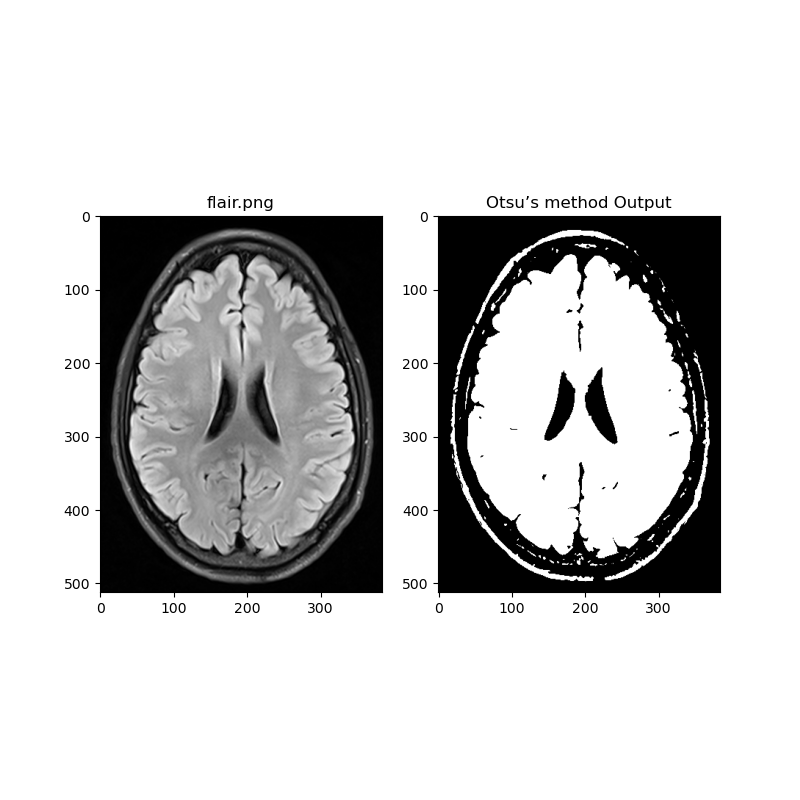
**Output of t1\_v3.png**



**Output of t2.png**



**Output of flair.png**



**Comment:**

**Part 3: Practical Challenge (Vascular Segmentation):**

* Completed all parts.