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Lesson 1: Introduction to Image Analysis

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Lesson 3: Image Analysis In Context

Lab: Image Analysis

Lab Verification

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Feature Extraction

1/1 point (graded)

You used a Sobel edge detection algorithm to extract features from the original carrot images, and from images that had been whitened using a gaussian filter.

Which of the following statements is true?

- [ ] The edges of the carrots in the raw images are more distinct than in the filtered images
- [x] The edges of the carrots in the raw images are less distinct than in the filtered images
- [x] The edges of the carrots in the raw images are more noisy than in the filtered images
- [ ] The edges of the carrots in the raw images are less noisy than in the filtered images

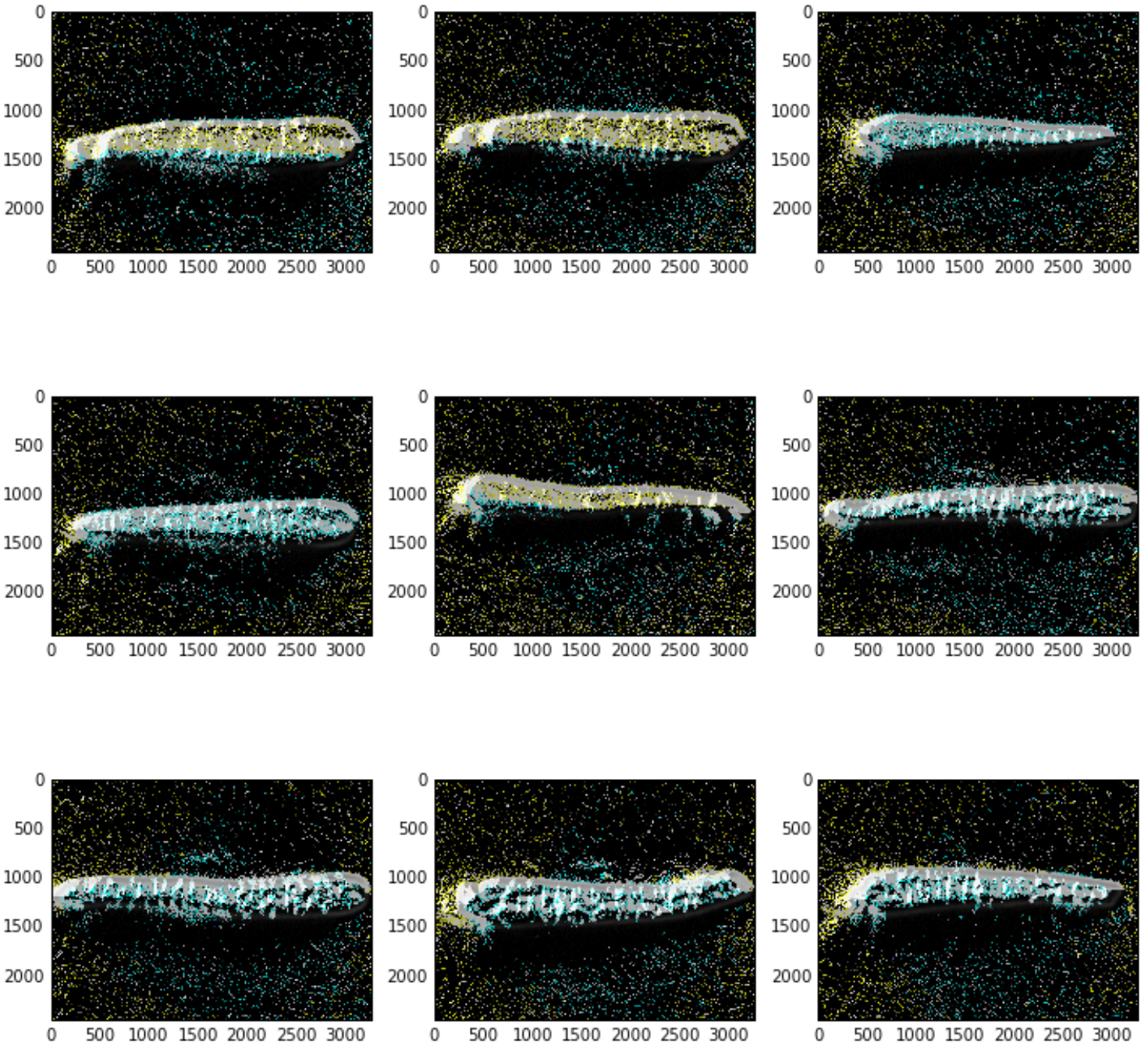
✔

Explanation

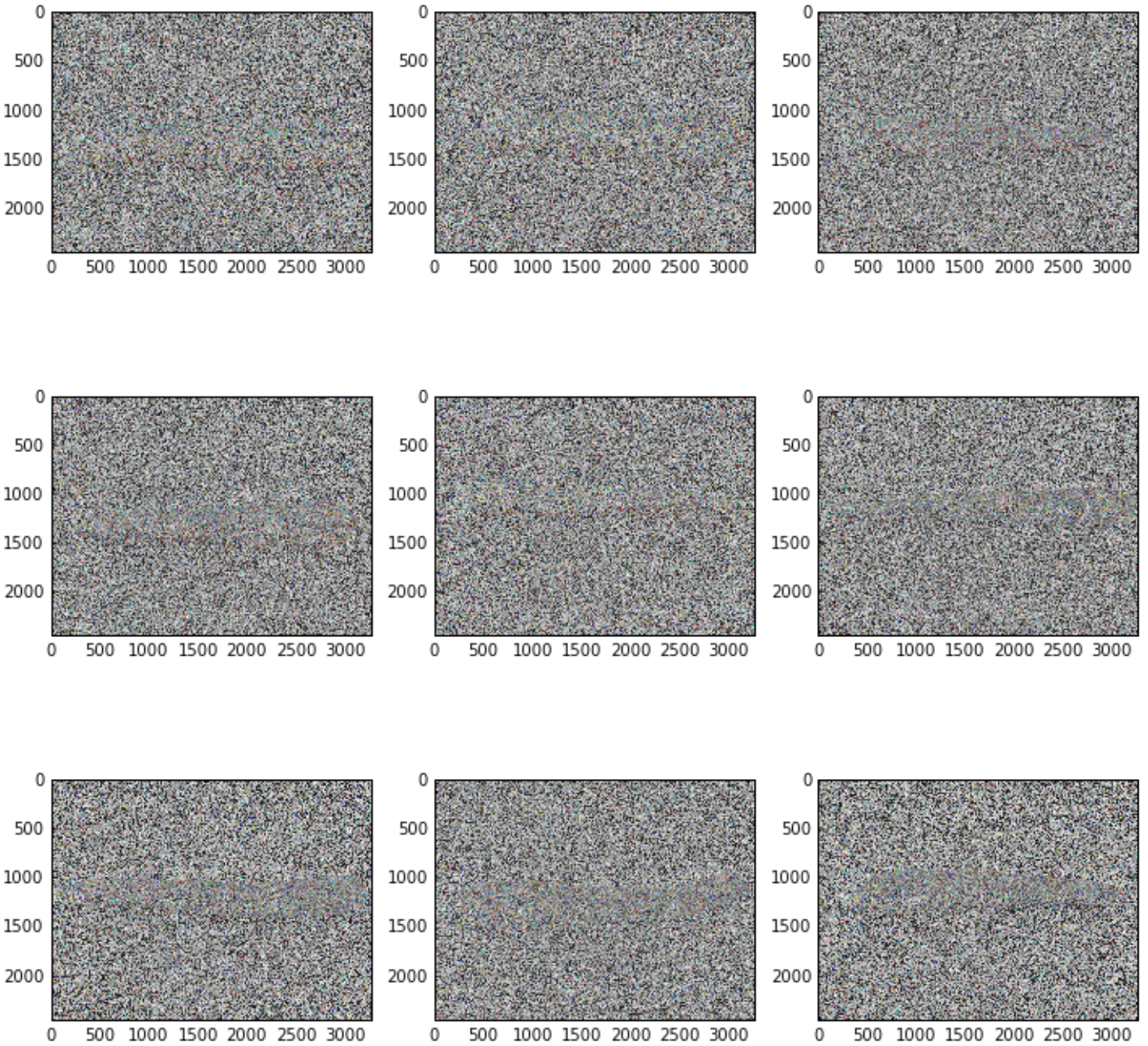
The filtered image results in clearer edges with less noise as shown here:

Lab

- Final Exam and Survey



Compare these with the results of the edge detection from the original raw images below:


0
500
1000
1500
2000
0 500 1000 1500 2000 2500 3000

Submit You have used 1 of 2 attempts

✔ Correct (1/1 point)

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