**Capstone Weekly Project Summary**

ObjectIdentifier is an image recognition application that is designed to recognize household objects. ObjectIdentifier is trained on a set of objects that have been manually classified. When a new image is encountered, the application will compare the object in the image to those it has already learned. Comparison will be by color, shape, etc. ObjectIdentifier will return the closest matching objects.

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| Week 1 | Project Status: N/A (initial meeting) |
| Tasks Completed/New Functionality | * Research different machine learning implementations and choose one that works well for object recognition * Set up initial repository |
| Comments |  |

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| Week 2 | Project Status: red |
| Tasks Completed/New Functionality | * Researched several machine learning algorithms that could be used for classification including Naïve Bayes, K-nearest Neighbor, neural networks * I will be using either Naïve Bayes or K-nearest Neighbor |
| Comments | I did not start working on my project until Monday this week so I did not get any coding done |

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| Week 3 | Project Status: green |
| Tasks Completed/New Functionality | * Implemented a K-nearest Neighbor classifier that classifies solid color images based on training data * Researched edge detection algorithms * I will be implementing Canny edge detection algorithm |
| Comments |  |

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| Week 4 | Project Status: red |
| Tasks Completed/New Functionality | * Began implementing Canny edge detection algorithm * Began applying Gauss filtering to smooth image and remove detail |
| Comments | I did not put enough time into my project this week. Will do better next week. |

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| Week 5 | Project Status: |
| Tasks Completed/New Functionality | * Finished implementing Gauss filter * Computed gradient magnitudes and angles to mark initial edges |
| Comments |  |

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| Week 6 | Project Status: |
| Tasks Completed/New Functionality |  |
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| Week 7 | Project Status: |
| Tasks Completed/New Functionality |  |
| Comments |  |

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| Week 8 | Project Status: |
| Tasks Completed/New Functionality |  |
| Comments |  |

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| Week 9 | Project Status: |
| Tasks Completed/New Functionality |  |
| Comments |  |

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| Week 10 | Project Status: N/A (presentation week) |
| Tasks Completed/New Functionality |  |
| Comments |  |