Keystone Project Description

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1. I plan on tackling the [understanding-the-amazon-from-space](https://www.kaggle.com/c/planet-understanding-the-amazon-from-space) kaggle competition. I am really interested in working with images and this seems like a good (albeit potentially difficult) entry into this branch of data science.
2. Week By Week Plan
   1. Week 5 – Preliminary data exploration and setting up tensor flow to work on a jupyter notebook. I’m interested in trying to use tensorflow for this project.
   2. Week 6 - Continuation of week 5 with the start of feature engineering using a small subset of data.
   3. Week 7/8 – Ideally have the first workings of a model up and running.
   4. Week 9 – Model optimization, feature reduction and attempting to test my code on a larger amount of the data (hopefully all of it!)
   5. Week 10 – finalize details and submit the proper output.
3. Team Name: Mega Seed
4. The data is well outlined on kaggle. <https://www.kaggle.com/c/planet-understanding-the-amazon-from-space/data>. The images are separated into “chips” and there are classifications on each chip about what is going on in it. There are a variety of different human and natural impacts to track.

If I have time I want to attempt to fill in any data obfuscated by clouds by using spatial recognition techniques to further improve the final data output, working with this technique may help the final data set as well as a part of an ensemble of algorithms.