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EGR 361 A

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## Final Project Proposal: Portland Parks Tree Inventory

Where you found the dataset: [Portland Maps - Open Data](#)

How it is relevant to your field:

The dataset is real world data, and has many datapoints. The tree inventory of Portland OR doesn't directly connect with my field; however, big-data is in my field. I am looking towards health/public/non-profit data analysis for a possible career path. So the Portland Tree Inventory dataset does seem like a suitable enough of a dataset for my field.

Why do you find it interesting:

I have a history in landscaping. While I gave up landscaping last October, at the end of my career I had been working for 8 ½ years and ended as a professional landscaper, and one of the top foreman of the Olympic Peninsula. So the Portland Tree Inventory attracted my attention more than other datasets on the Portland Maps website.

What you want to predict with your dataset:

The dataset has multiple interesting options. The set of tree attributes:

["Structural\_Value", "Carbon\_Storage\_value", "Carbon\_Sequestration\_value",  
"Stormwater\_value", "Pollution\_Removal\_value", "Total\_Annual\_Benefits"]

These are interesting and may be very applicable practice for data analysis that may contribute to a business decision. However, I don't have enough details about the specifics of how the data was collected or calculated so that it makes me hesitant to predict something with these attributes.

Unless you have clarifying information about these details, I don't want to create too large of a scope for this assignment. Instead I am going to predict the total annual benefits provided by individual trees based on size.

Which features you plan to use in the prediction:

To predict the total annual benefits of each tree by the size of the tree the following columns will be analyzed and compared.

["DBH" (Diameter at Breast Height), "Total\_Annual\_Benefits"]

Other notable tree attributes for tree size are:

["TreeHeight", "CrownWidthEW", "CrownWidthNS", "CrownBaseHeight"]