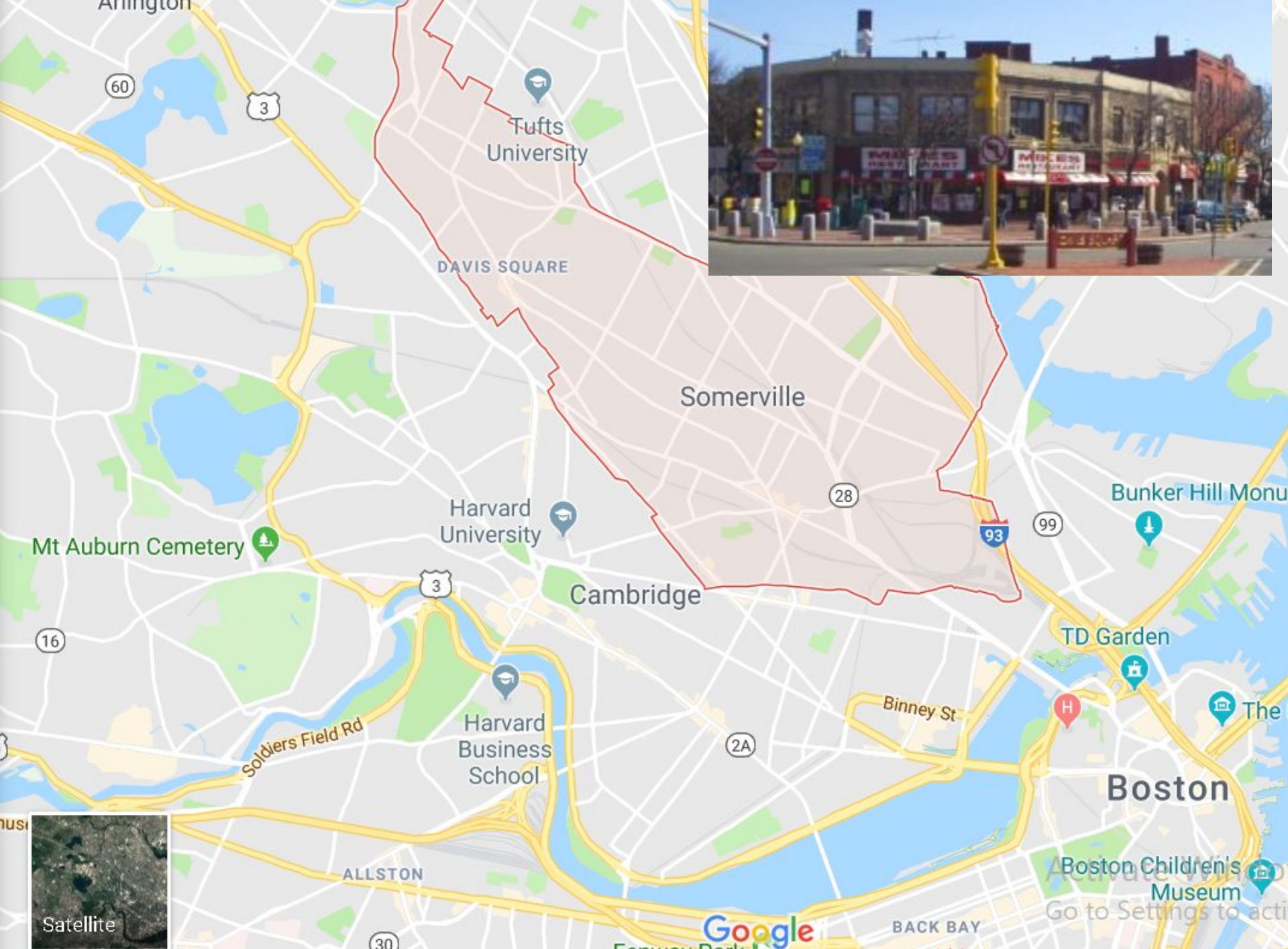




Classification with the Somerville Dataset

John Stinson - johnstinson99@gmail.com



Search datasets...



Order by:

Popular ▾

Datasets ordered by Popular

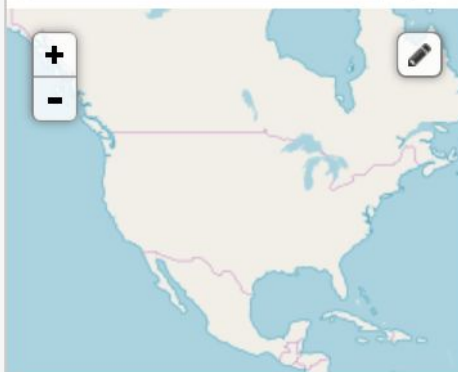
Tags:

happiness ✕

Filter by location

Clear

Enter location... ▾



2 datasets found

Somerville Happiness Survey responses - 2011, 2013, 2015  21 recent views

City of Somerville — The City of Somerville sends out a happiness survey to a random sample of Somerville residents asking them to rate their personal happiness and their satisfaction...

[CSV](#) [RDF](#) [JSON](#) [XML](#)

2013 Somerville Resident Happiness Survey


City of Somerville — 2013 Somerville Resident Happiness Survey

City

Activate Windows
Go to Settings to activate Windows.

B	C	D
Year	How.happy.do.you.feel.right.now.	How.satisfied.are.you.with.your.life.in.general.
2015	7	5
2015	8	8
2015	5	9
2015	5	8
2015	7	9
2015	7	8
2015	10	10
2015	7	8

Demo

 5

	P
1	How.would.you.rate.the.following..The.beauty.or.physical.setting.of.Somerville_2013
2	NA
3	NA
4	NA
5	NA
6	NA
7	NA
8	NA



happiness

File Edit View Insert Format Data Tools Add-ons Help [All changes saved in Drive](#) 200% \$ % .0 .00 123 Arial 10 **B** *I* ~~U~~ A

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2011

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2011

9*

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2011

9*

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2011

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126

2011

88

127

2011

77

128

2011

57

129

2011

42

130

2015

10

Demo: Data Munging with Pandas:

Somerville Happiness Dataset

- Different columns each year.
- Free text fields,so invalid characters
- Many irrelevant columns
- Long column names
- Strings in numeric columns eg '0-5 years'
- Non-sequential values – e.g. Marital Status

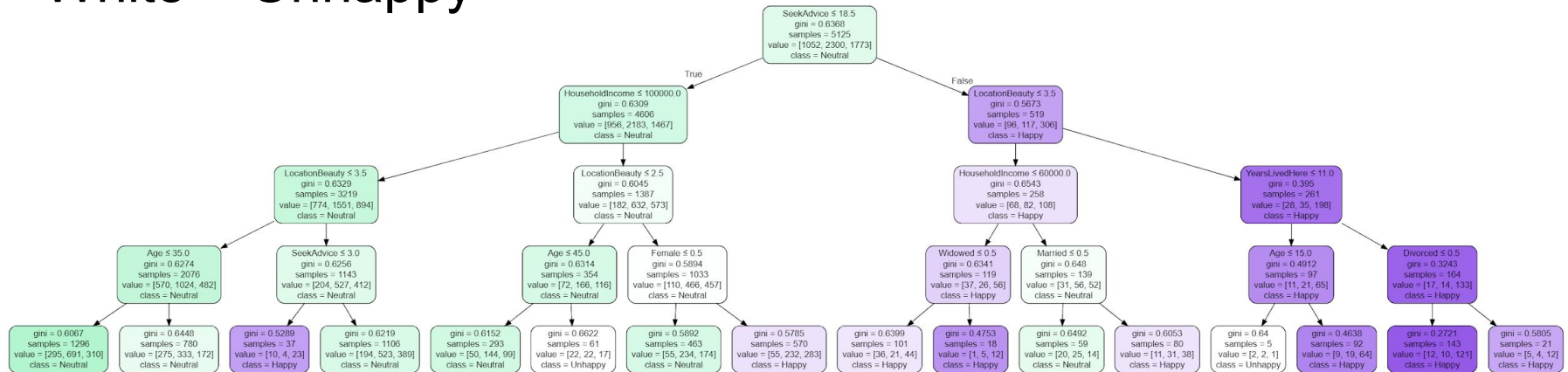
Decision Tree - 5 levels

Key:

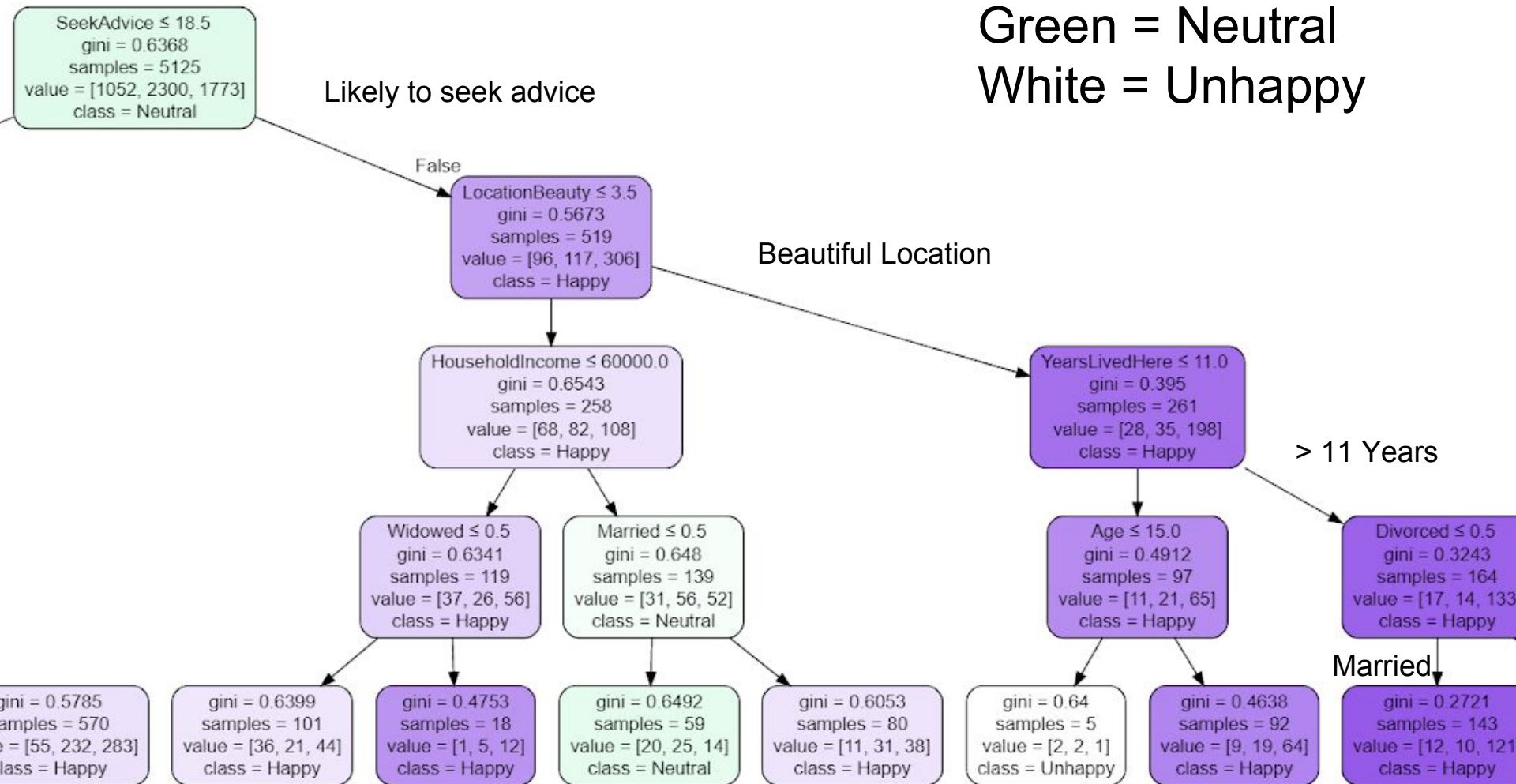
Purple = Happy

Green = Neutral

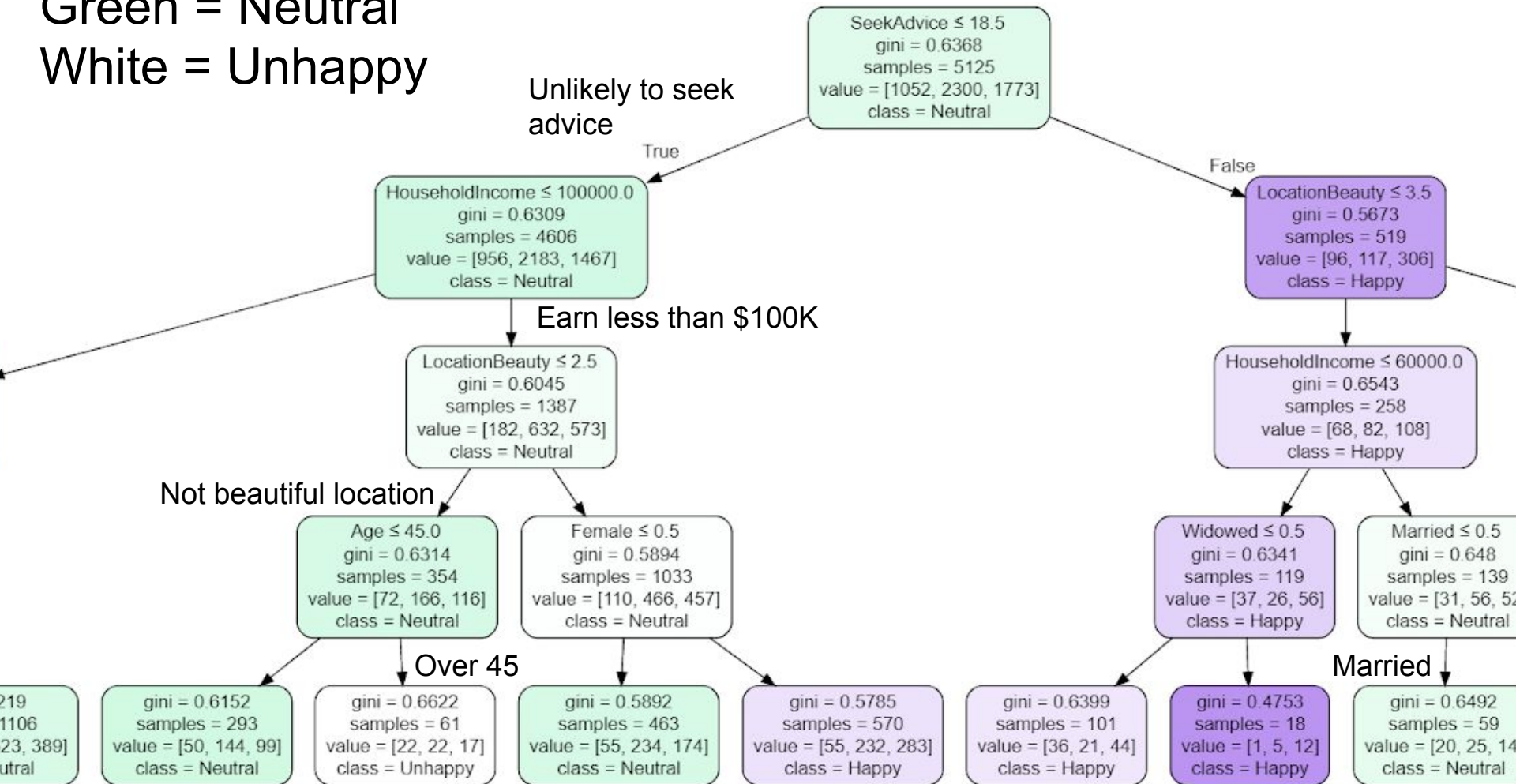
White = Unhappy



Key:
Purple = Happy
Green = Neutral
White = Unhappy



Key:
Purple = Happy
Green = Neutral
White = Unhappy



Next Steps

Experiment with

- Different number of levels of decision tree
- Including/additional variables
- Use alternative output columns
- Alternative classification models

Questions?

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