Decision trees

Decision trees
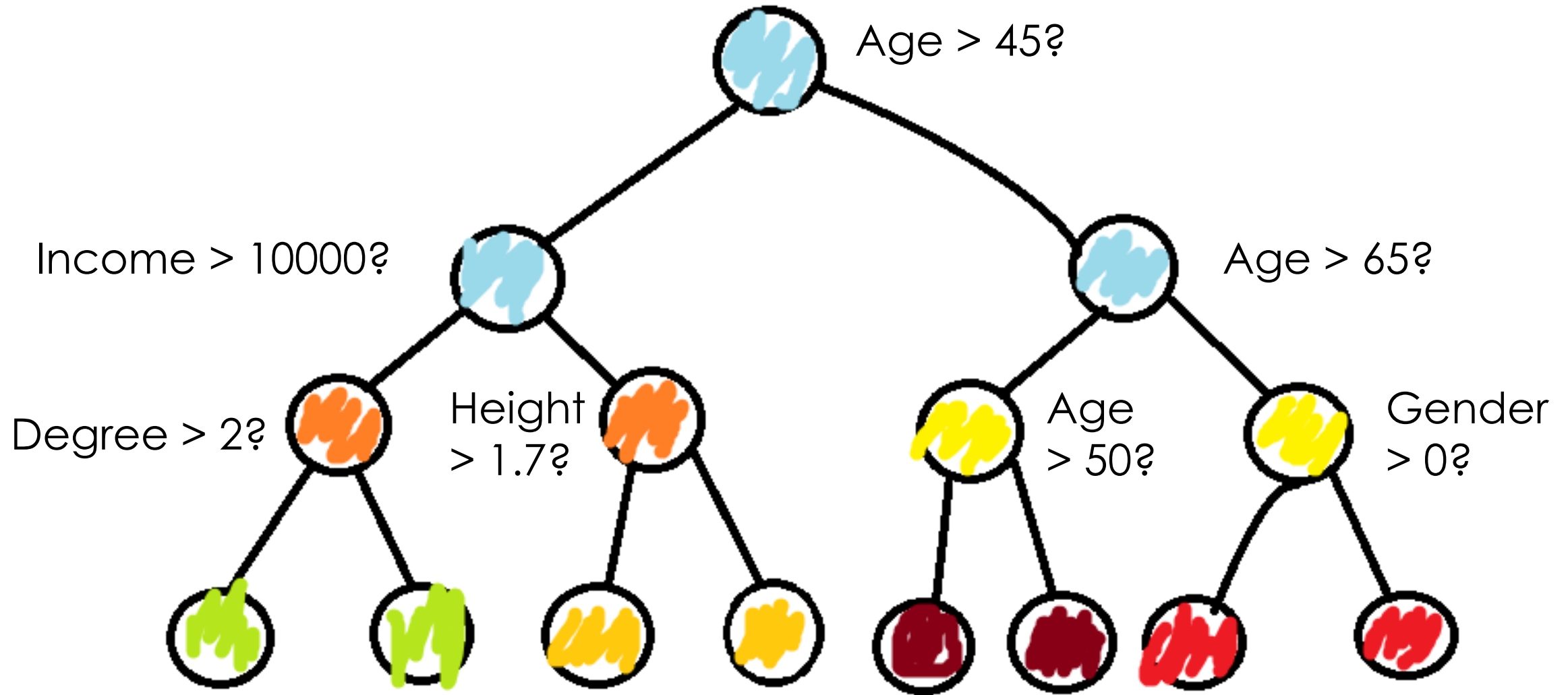
Decision trees consist on a series of yes / no partitions, based on a feature value.
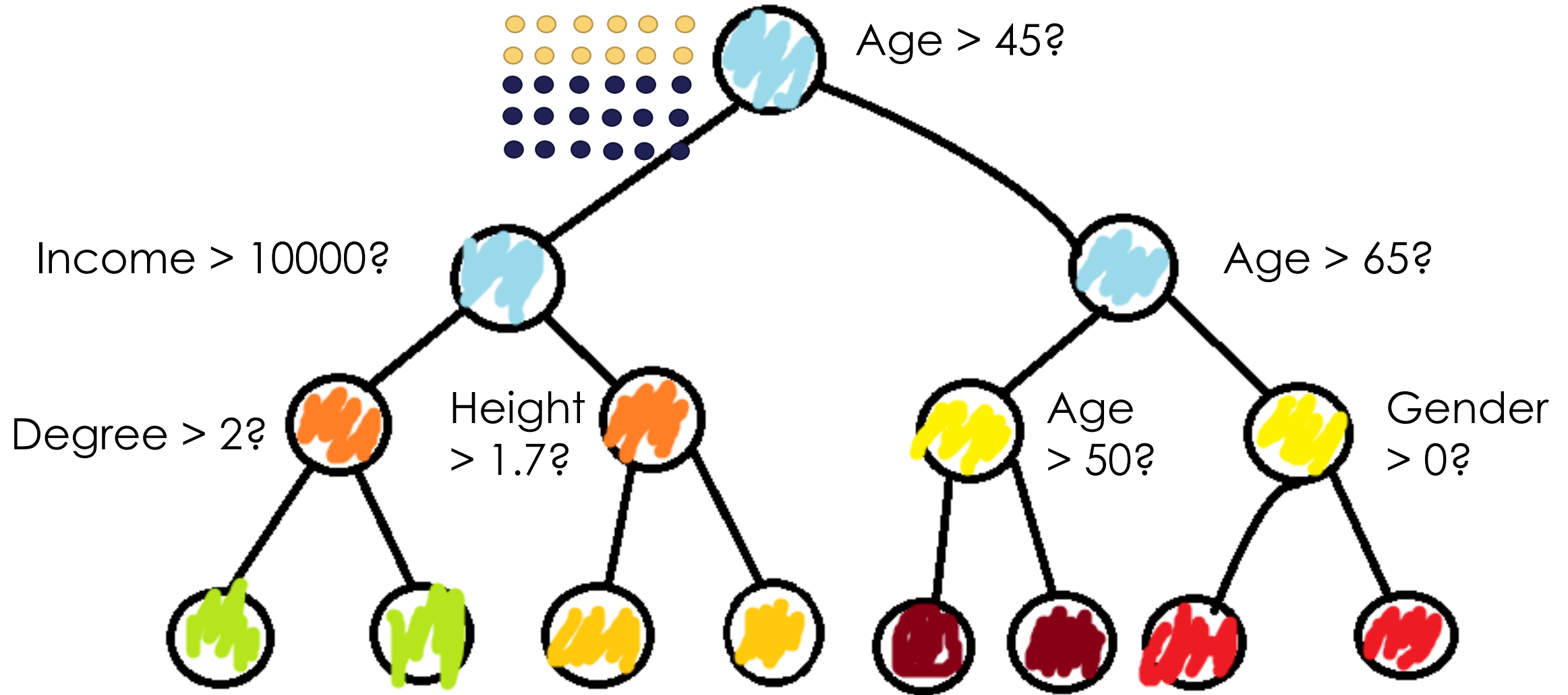
Decision trees advantages

- Simple.

- Easy to interpret.

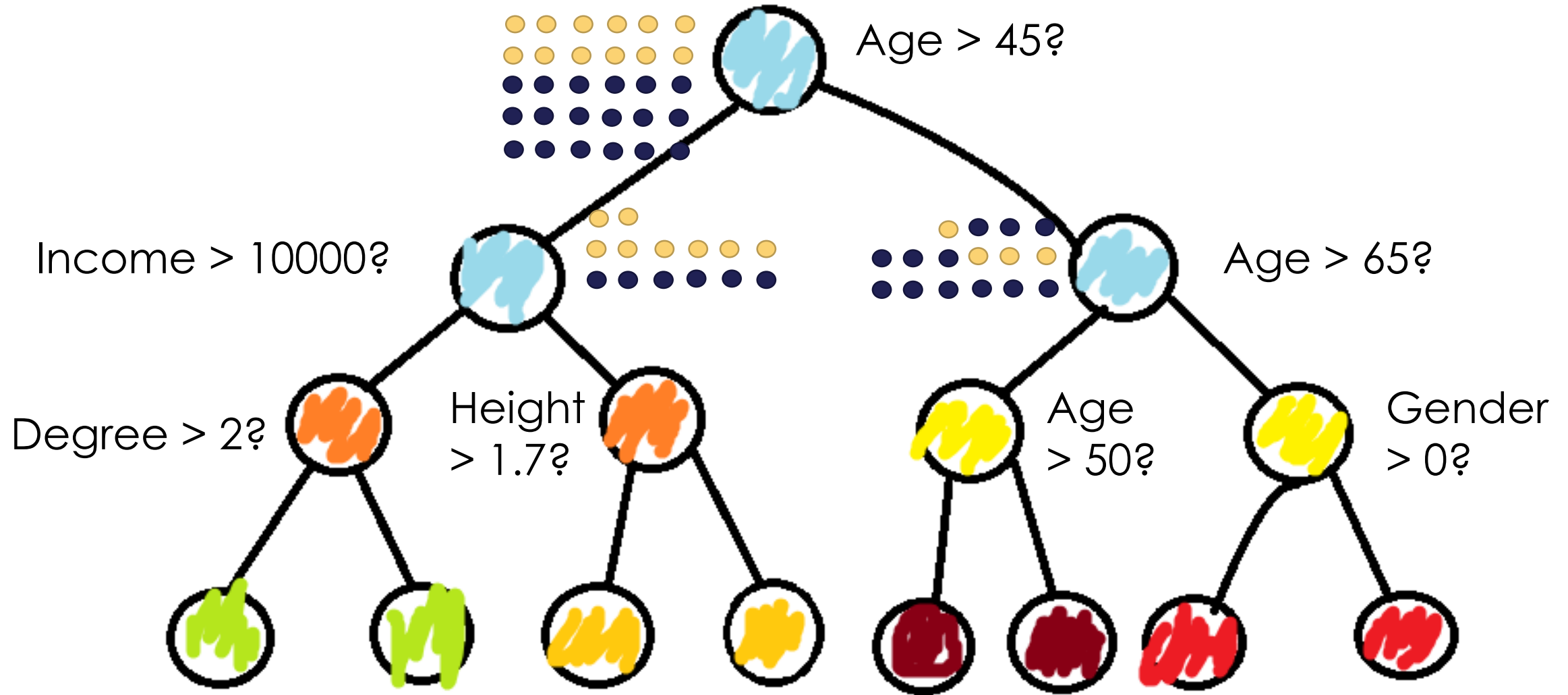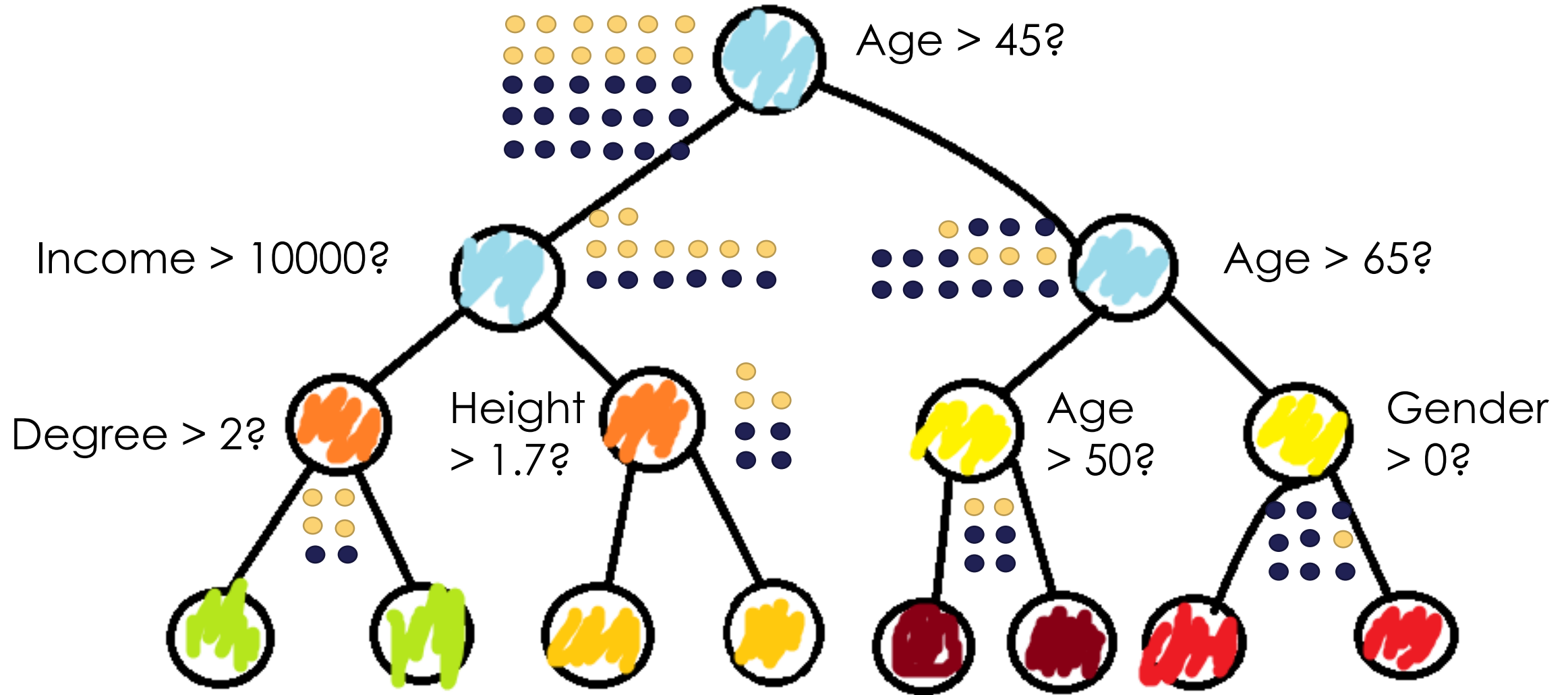- Powerful for non-linear associations between features and targets.

Decision trees

Age > 45?
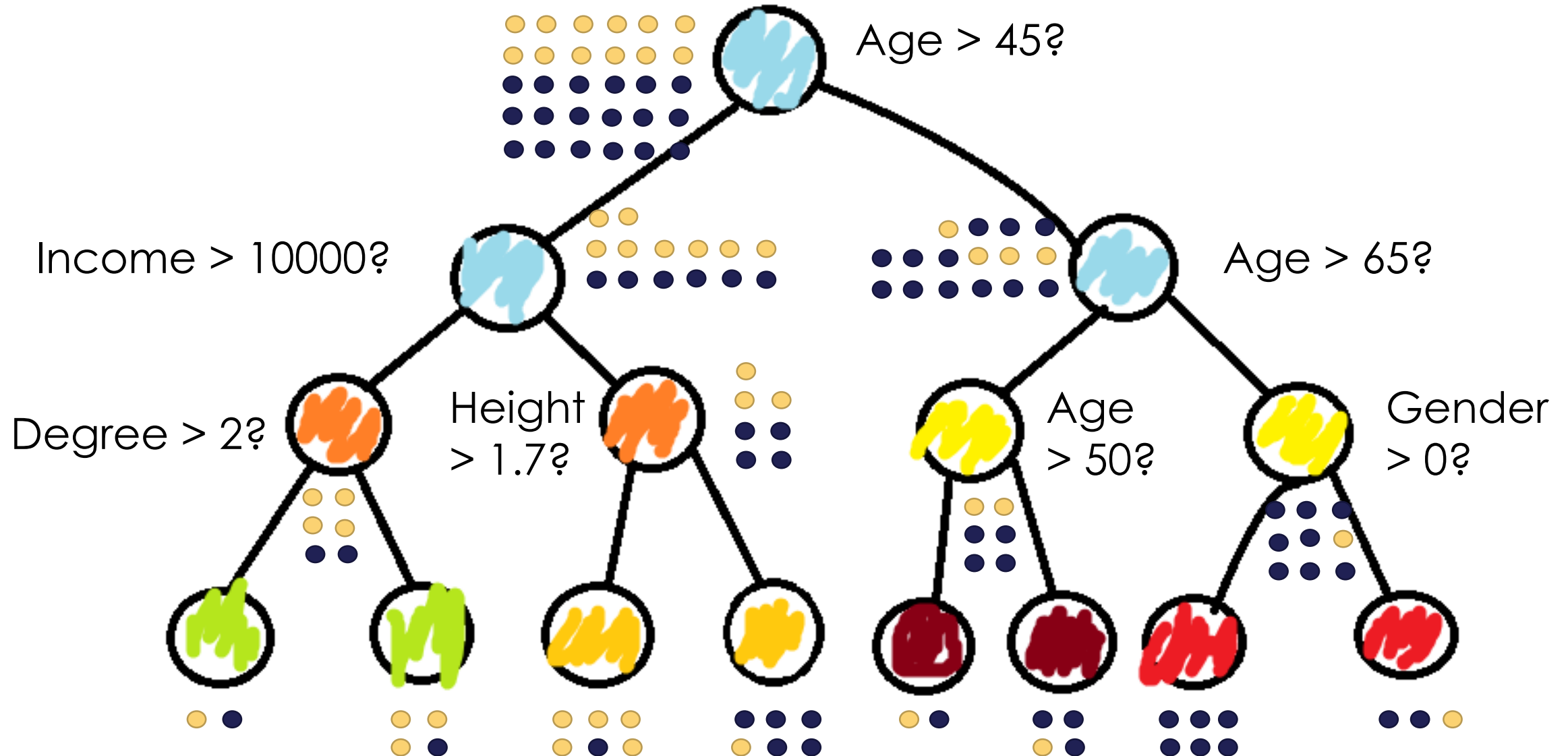
Income > 10000?

Age > 65?

Degree > 2?

Height > 1.7?

Age > 50?

Gender > 0?

Decision trees

Decision trees

Age > 45?

Income > 10000?

Age > 65?

Degree > 2?

Height > 1.7?

Age > 50?

Gender > 0?

Decision trees

Age > 45?

Income > 10000?

Age > 65?

Degree > 2?

Height > 1.7?

Age > 50?

Gender > 0?

Decision trees

Age > 45?

Income > 10000?

Age > 65?

Degree > 2?

Height > 1.7?

Age > 50?

Gender > 0?

Decision trees - classification

0.5   0.75   0.83   0.17   0.5   0.25   0   0.33
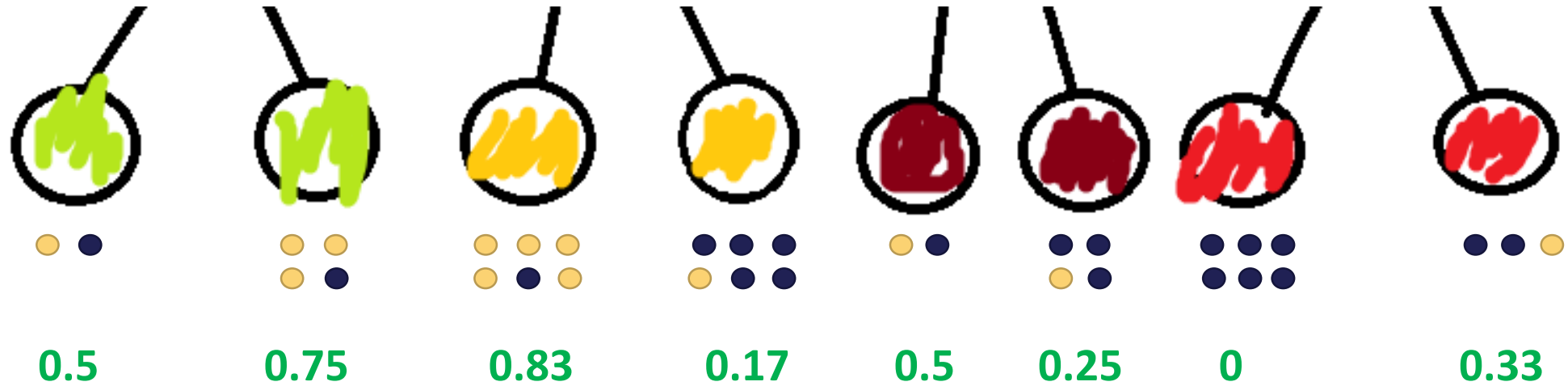
Decision trees - regression

500   250   680   150   100   400   900   800
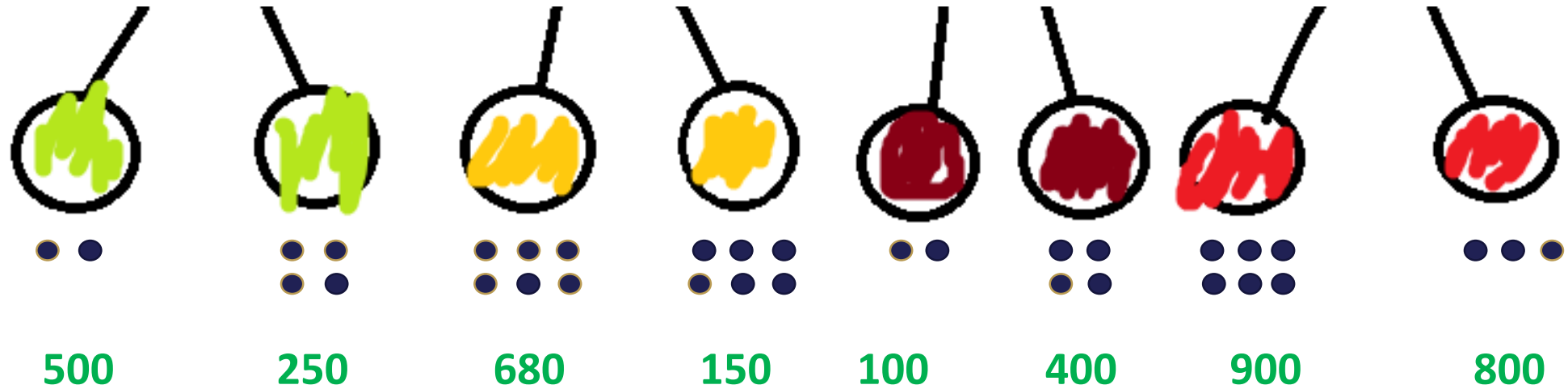
Decision trees disadvantages

Output is not smooth (not continuous).

THANK YOU

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