Introduction to Dimensionality Reduction



What we will be covering in this module?

What is Dimensionality Reduction?

Why is Dimensionality Reduction required?

Common Dimensionality Reduction techniques



Salar y



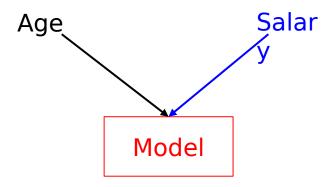
Age Salar



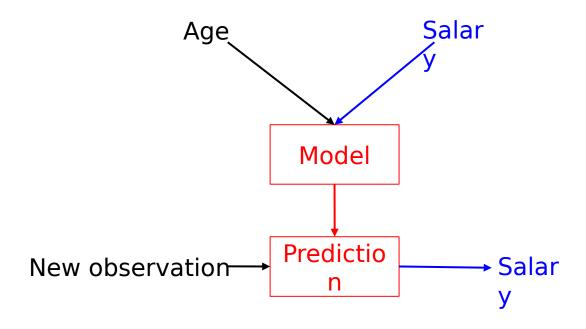
Age Salar y

Model

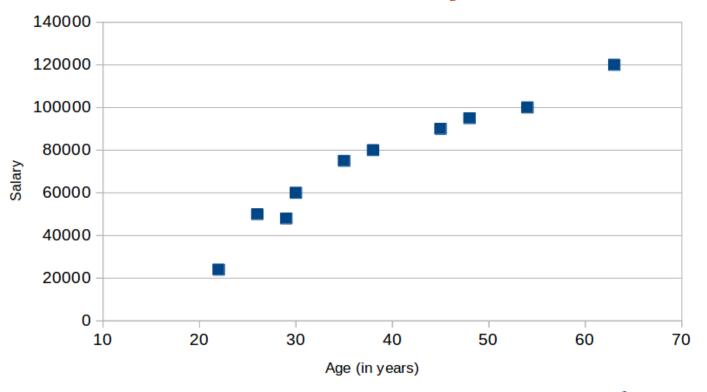














Age Salar Occupatio n

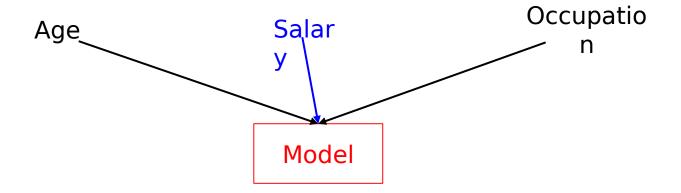


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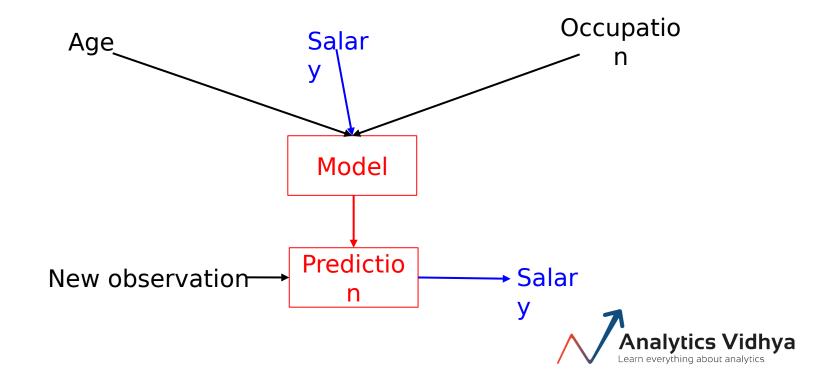
Occupatio n

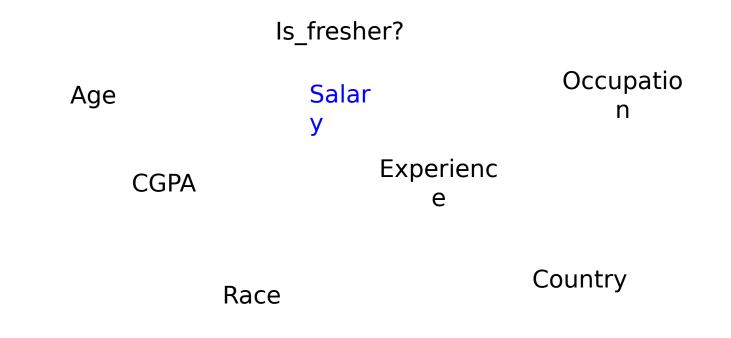
Model



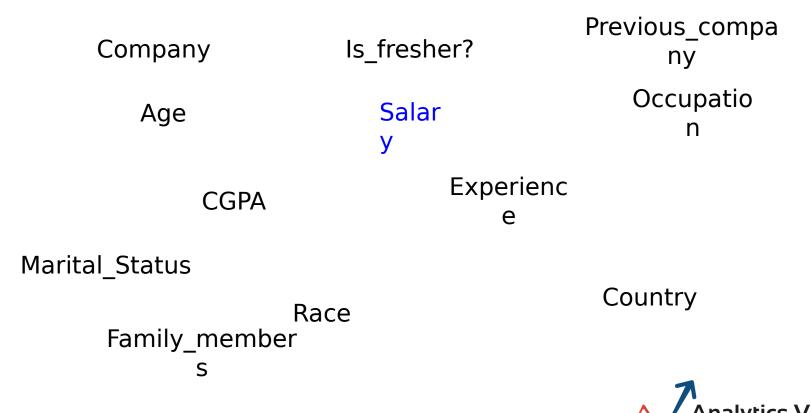


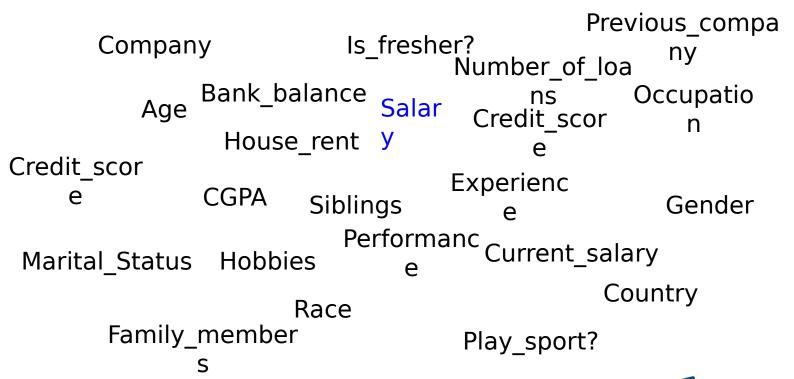




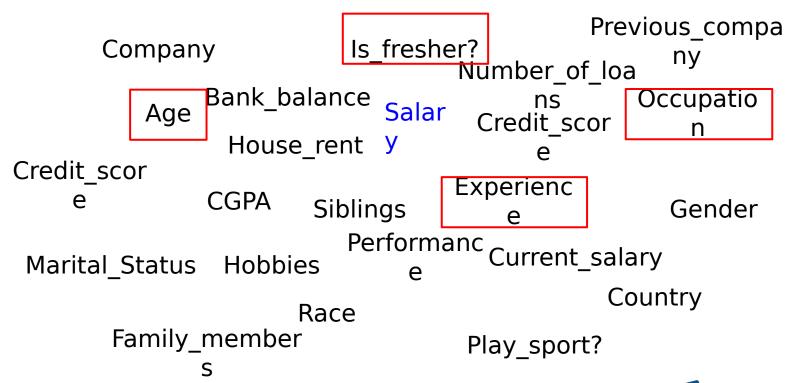










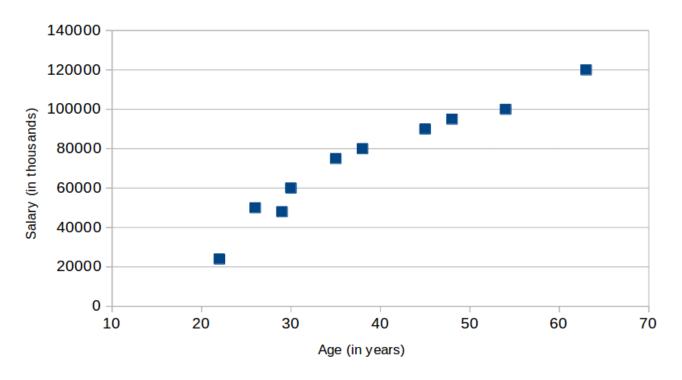




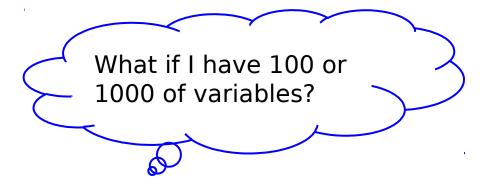
Challenges with high dimensional data

- Visualization becomes difficult
- All the variables might not be important
- More computation time
- More complex models
- Difficulties in data exploration











More number of plots required



Process of reducing the dimensions of the data ensuring it conveys maximum information



Thank You!

