

P4 Writeup

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1 PCA

1.1 Why is PCA beneficial when utilizing different machine learning methods?

PCA is beneficial because it is an unsupervised dimensionality reduction technique, where the number of attributes or features are reduced, often times needed due to computational limitations. While having more features lead to a better prediction, a balance between computational power and predictive ability have to be set. PCA is highly useful in processing data with multi-collinearity between features, data compression and noise reduction, as well as when dimensions of input features are high.