

Introduction to Machine Learning techniques.

The MeSsI (Merging Systems Identification) Algorithm.

Analysis of individual merging clusters candidates.

CosmoML: Machine Learning techniques applied to the CMB.

Conclusions.

Machine Learning techniques applied to cosmological problems.

Martín de los Ríos

Director: Dr. Mariano Domínguez

Resumen

Introduction to Machine Learning techniques.

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A2029/2033.

A1204.

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Statistical analysis of the magnetic fields in merging clusters.

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Construction of the data set.

Unsupervised methods.

Supervised methods.

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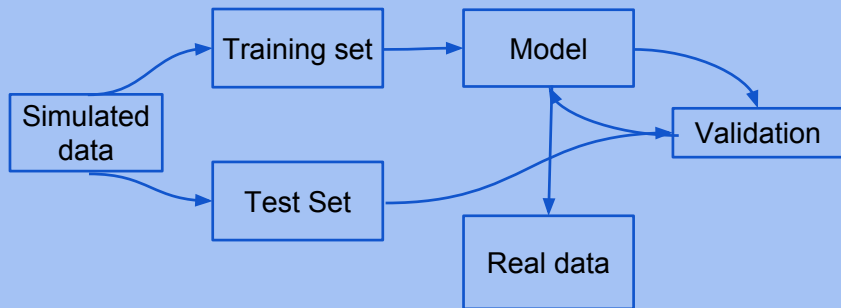
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Supervised Learning.



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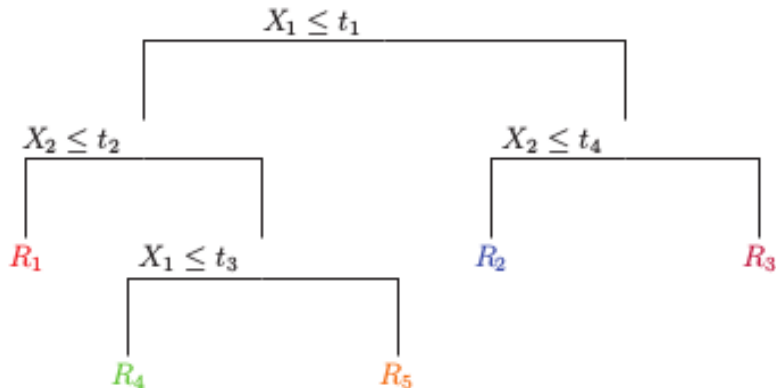
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Random Forest

Random Forest



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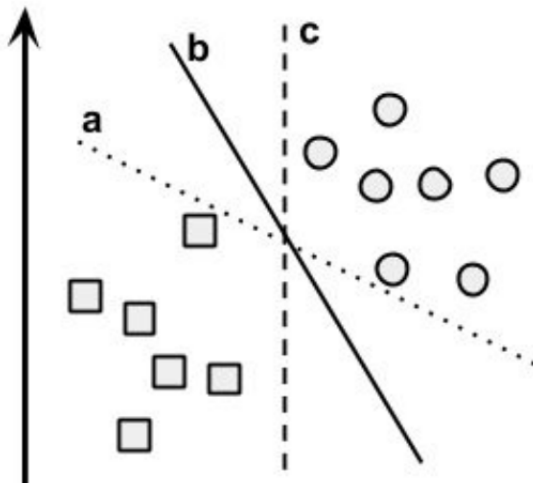
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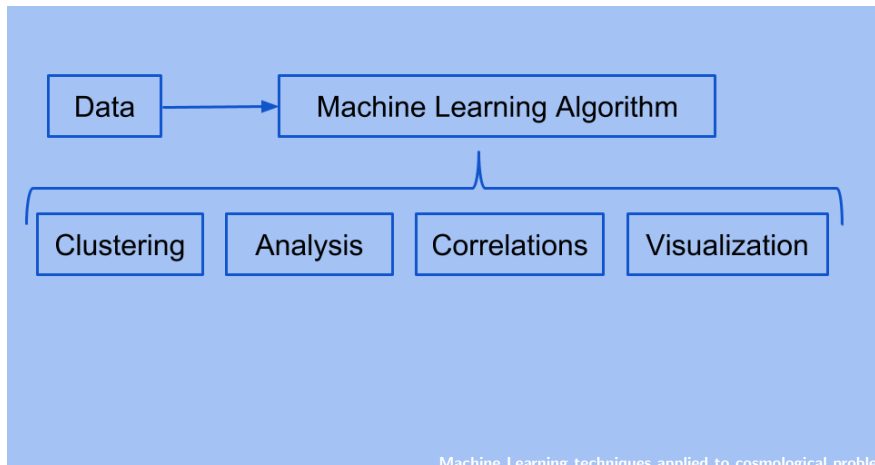
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Support Vector Machines

Support Vector Machine



Unsupervised Learning.



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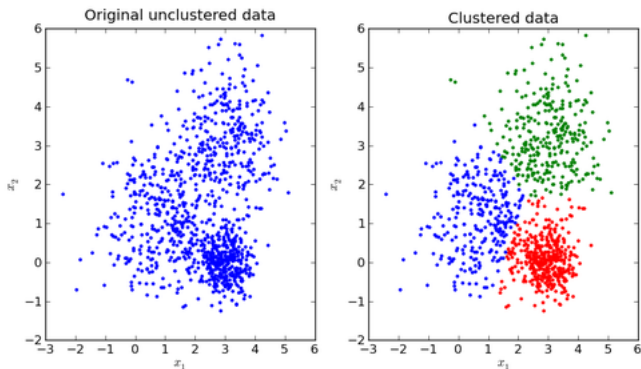
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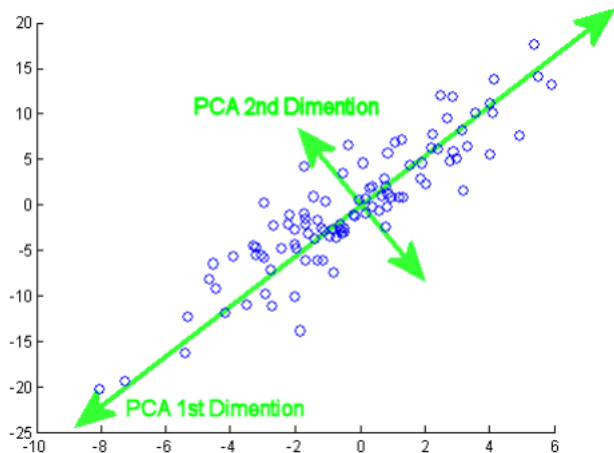
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Mixture of Gaussians

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Principal Components Analysis.



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Muchas

Gracias