Lecture 20

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Discussing some issues with Gradient descent, as understood in Lecture 19.

We use Stochastic Gradient Descent (SGD) to escape local minima and other critical points.

SGD:

Batch Gradient Descent

BGD:

Combining Models

ensemble models

- \rightarrow for classification
 - model averaging:
 - assumption 1: probability that any model is correct if p > 0.5
 - assumption 2: h_1, h_2, h_3 are independent of each other

nearest neighbor

splits into voronoi regions label is the same as the data point