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What is supervised - - - - technique

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Supervised classification can be defined normally as the process of samples of known identity to classify pinels of unknown identity. Samples of knowen identity are those pinels located within training areas. Pinels located within these area term the training samples used to guide the classification algorithm to assigning specific spectral values to appropriate informational class.

The basic steps invalued in a typical supervised classification procedure are-

- 1) The training stage
- 2) Frature Selection
- 3) Selection of appropriate Classification Agonithm
 - 4) Post Classification Smoothening
- 5) Accuracy Assissment

Ræle cof the manimum Likelihood Classifier -

Manimum likelihood decision rule assigns each pinel having measurements on features X to the class c ushase units are most probable cer likely to have given rise to feature becher n. It assumes that the training data statistics for each class in each band are normally distributed (craussian). So, we can say that training data with bi-or trimodal histograms in a single band are not ideal. In such cases, individual modes probably represent individual classes that should be trained upon individually and labelled as separate classes which would then produce unimodal.

So, to conclude the manimum likelihood classifier classifies the kinels weith the manimum likelihood into the corresponding class.