# Matlab NBayes Implementation Notes

## Matlab fitcnb

## Train multiclass naive Bayes model

## 

### Parameters of note

### 'DistributionNames' — Data distributions 'kernel' | 'mn' | 'mvmn' | 'normal' | string array | cell array of character vectors

You must specify that at least one predictor has distribution 'kernel' to additionally specify [Kernel](https://localhost:31515/static/help/stats/fitcnb.html?snc=1II7D6&searchsource=mw&container=jshelpbrowser#budugq5-1_sep_shared-Kernel), [Support](https://localhost:31515/static/help/stats/fitcnb.html?snc=1II7D6&searchsource=mw&container=jshelpbrowser#budugq5-1_sep_shared-Support), or [Width](https://localhost:31515/static/help/stats/fitcnb.html?snc=1II7D6&searchsource=mw&container=jshelpbrowser#budugq5-1_sep_shared-Width).

Kernel (kernel smoothing density estimate) and normal (Gaussian) are compatible with this dataset, mn and nvm are for datasets containing tokens as attributes.