## Elements of Statistical Learning Chapter 1: Introduction. Regression & olassification -> supervised. Gene-expression o clusting together! (prediction as quentitation) clanification. (prediction of quanti-Chapter 2. : Overview ob Supervised Learning - superised learning injout -> (+(·) | (predict) oualitative: 2 = categorical variables discrete/ reopauses/ prelictors, probabil dependent id seems with part class no ordering! leature / := low, medium, predered () variable. independent var tanets: survived/died > p/o isone hot encoding K level quelitative vanable -> kabinan (Vo) vor/bits = this are called dumy variables. data to construct prediction rules: training dutain escally on trouse to is afres : what is it meant by stability of model ? \* Diff in tabular form for Least Squeres & Nearest Nighbons. Ly take a date of apply both to same! - Task! The linear model fitby least agreences: huge assumptions about the structure stable predictions of the present - possibly in accurate predictions \* K- nearest-neighbor prediction rule: - very mild structure assumptions. often accurate predictions.

