



### Why

We list some examples of classification

- *Medical Diagnosis.* An individual arrives at the hospital presenting a set of symptoms, which may possibly be attributed to one of  $K$  medical conditions. Predict which medical condition they have.
- *Fraudulent Transaction Detection.* A payment processor has the location and amount for a proposed transaction, as well as past transaction history of a particular credit card. Is this transaction fraudulent?
- Given a particular variant data for a set of individuals with and without a given disease. Predict whether an unseen variant is deleterious.



