Types of Data Mining Tasks

- **Prediction** based on past history

  - Predict if a credit card applicant poses a good credit risk, based on some attributes (income, job type, age, ..) and past history

  - Predict if a pattern of phone calling card usage is likely to be fraudulent

- Some examples of prediction mechanisms:

  - **Classification**

    - Items (with associated attributes) belong to one of several classes

    - **Training instances** have attribute values and classes provided

    - Given a new item whose class is unknown, predict to which class it belongs based on its attribute values

  - **Regression** formulae

    - Given a set of mappings for an unknown function, predict the function result for a new parameter value