(Not Enough)

Law/Theory of Explanation

Validation of Explanation

Hypotheses (Creativity)

Environment/Scene

Complex System
Our understanding of little systems...

System

Computational Science
if true is structure

more data > fun models

inductive - build model from data
+ other chemicals

+ photograft (cells in operation)

- data about human genetics

medicina

pay for everything

higher price you'll

Google is measuring you

ads

applications:
Strategies

- String/Inference Substitutions
- Anomaly Detection

Scree & Invariance
clustering
- with each piece
  as a separate
  bone:

most × to least ×

- random
- Prediction

Clusters aren't necessary.
¿M.T. W., Th., F, S, S?, Sn¿

¿Qué?

¿Qué? Entonces, a que, porque¿

¿Cómo? De a punto a punto se

¿Visto, me? A qué¿

¿Cerrado, desde a punto, vamos

¿Mismo, ¿

Valores en la tabla:
- magnitudes (units)
every day in units of 7 days

\[ \bar{y} \]

\[ \text{Replace } y_i \rightarrow \bar{y}_i - M_i^y \]

column std dev

column mean

column mean

center to 0 scores

use plausible means

Company records to records
Imputation - use column mean

Responses: omit columns w/ zero rows

Collect data - random

Sensitivity data - not random

\[ \overline{\text{Missing values}} \]

Cleaning
Variables
- numeric values
- dependent variables
- regression

Prediction
- regression lines
- classification

Independent variable
- numeric values
How good is this predictor?

Technique: decision tree

Conditions:
- if wt < 120kg
  - dump
  - smart
- if wt ≥ 120kg
  - if h < 2m
    - if ht < 10
      - decision tree output
  - if h ≥ 2m
    - decision tree output
% accuracy: (How many test cases were predicted correctly)

Performance measures:

- % accuracy
- Precision
- Recall
- F1 score

Model

Output

Data

Predicted Answers
100 rows

- number of (test set) rows

Confusion matrix

no predictor, loss on training & test set

15%

F: class 8
A: class 4

Pitfall: 85% in rows from class A
Date: 15th August

Decision - presentation or not.

Announcement of initiatives

Week 2: my presentation

In each class is quite different

In many of these situations, the number of students is small.

Some situations: some if we help as much more. But...
In excess earth, cut rock

10 mins

Work 4 - 11th: Present your arguments to the current desert

Work 5. You are presenting your technology 10 mins