

Diamond, 1988; Kodane, 1985; Tony O'Hagan, 1992

John Skilling 1991

Solve DE's from Bayesian

- Bayesianistic numbers models the numerical uncertainty of propagates a probabilistic ~~error~~ of error thru subsequent computations

e.g. Data-driven engineering  
in Petrochemical & Refining

oil field as elliptic PDE:

e.g. Science Signatory - pharmaceuticals

e.g. Computational social science

e.g. police

London ~~police~~ finite sum of  
most solvers work series of basis function

(cf. Whitehead's process  
e.g. Gardner screen-sets in flame

+ sea in a future at small scale:-  
- help model combustion process

- call order 45'

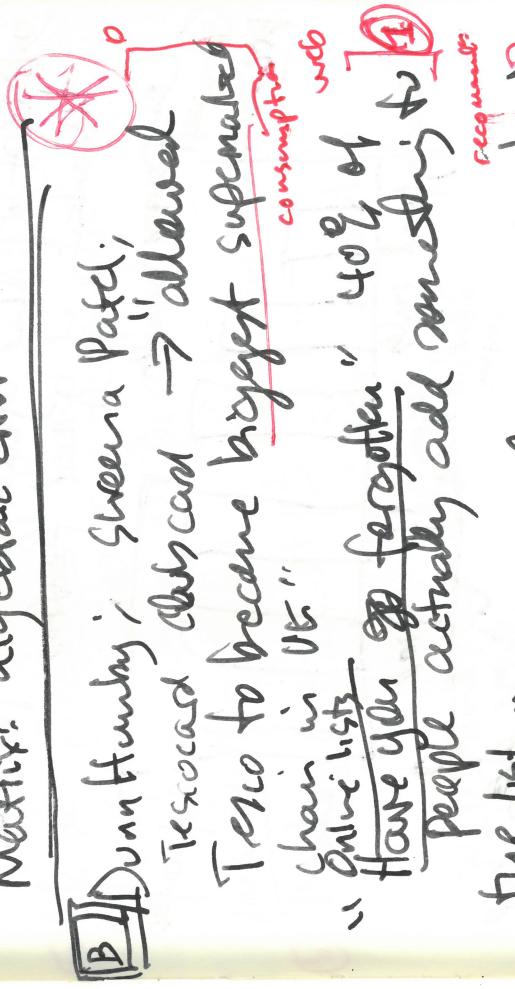
- increase decrease mesh sizes, but  
frontier don't show linear, only piecewise  
If take vertex induced uncertainty  
into a/c, then the bias shield.

Sheet, 2018]

Way of ~~increasingly~~ uncertainty uncertainty  
according to quantity uncertainty

- in pipeline of computation;  
New role for statisticians ...  
e.g. ice sheet flow;

What about inverse of co-variance  
matrix? algebraic error?





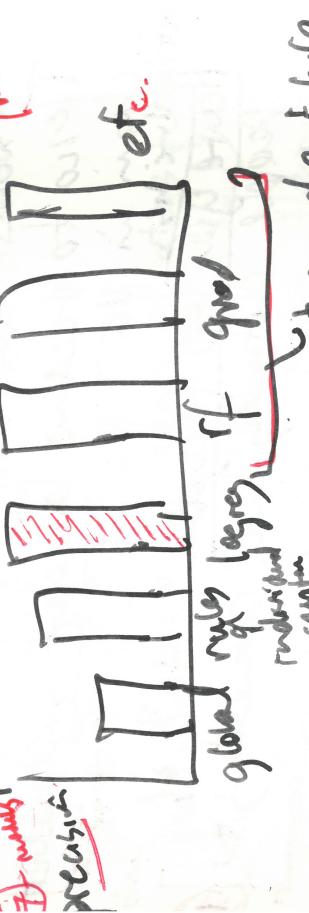
(5) 52 weeks of data for each customer

- product sales
- purchase cycle
- frequency of purchases
- relative freq of purchases
- promotional
- customer level, product-level, customer segment:

Most of time gains comes from thinking of good features.

thinking of good features.

Customer makes



These don't help customer

Make 20 recent

for 200, 000 products

We have a lot of 0's.

Many many blank data  
Understanding is used to correct

feature engine → generates top 5 customers

don't want a lot of low spend

$$H_{i,j} = \hat{p}_{i,j} \times (\text{prior} \times \text{customer})$$

out

- convenience-weight really changes
- the "Have You Forgotten" list.
- we are interested in top ranking products;

metric

⑩ Metric: Precision -  $\frac{\text{true}}{\text{true} + \text{false}}$  = prefer = of products

within the top  $k$  of the predicted scores which are predicted.

⑪ Measure is  $A|B$   $\frac{\text{precision}}{\text{recall}}$  - off by  $A|B$  Test A Test B

Control A Control B

Customers are allocated to one of few categories

Look at weights: allow models brought in 3rd time upshift. Weights  $\rightarrow$  weights

⑫ Raw data | hr → Feature → model / weekly learning rule applied; based 200 Alloc → remove per feature; based customer

## Five effects relevant of recommended

Identify Substitutes: "Self - Leasing Substitutes" → we data for modelling substitutes  
→ use this to look for Substitutes in the recommended list.

### Product Similarity

- (14) - looks at whether previous recommendations have accepted; used clicked as the response.  
- 14th column in design matrix  
- use LSI reg → push content to 3rd row  
Use for all products to get a Similarity matrix if get intent  
c.g. nutella → bananas but nutella → nutella

complementarity?

## restrictive engine receives book

i search similarity matrix:  
- re-rank 'have you forgotten' book  
adding to HIF scores.

### Product Similarity the future

- concurrenties driven consumer  
challenge: reduce size of matrix;  
- can't zero on realistic engine

### glossario. post @dannhumbley.com

[c] Tim Park, Shelly D'Souza a team they  
- Statistics & Chemometrics / UK  
- Advanced Analytics / India  
- Data Science Network / NL

Nobody would use it unless they  
can understand it.  
Parts for drilling platform