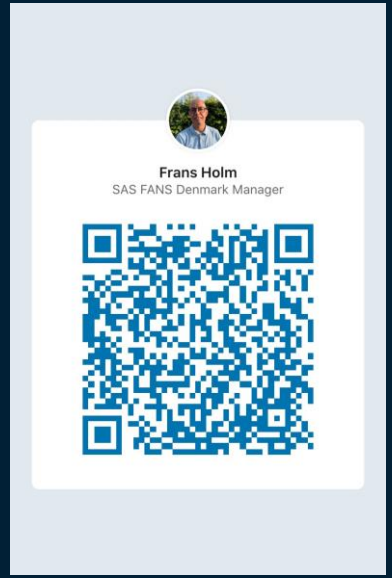
FANS Nordic
Data Science Network

30/11-2021 - At Teams

13.00-16.00 CET



Frans.Holm@sas.com

Local FANS manager

Nordic FANS

- Pia Rønnevik (Norway)
- Pietari Koskela (Finland)
- Daniel Ringqvist (Sweden)
- Frans Holm (Denmark)

FANS Nordic Data Science Network

Agenda

9.30-12.30 CET

- Welcome
  - by Frans Holm, SAS
- Model factory - From idea to model in production in a matter of hours
  - by Stian Fagerli Arntsen, Sparbank 1
- Break
- DS2 coding and relation to VDMML
  - by Daniel Ringqvist, SAS
- From Data to Prediction on the Web
  - by Xavier Bizoux, SAS Global (GEL)
- Break
- Proc Python/Python steps
  - by Wilbram Hazejager, SAS R&D
- Closing & Lottery
  - by Frans Holm, SAS

fans NORDIC SAS USER GROUP

sas

Thank You for Speaking

- Don’t invent new things!
- You don’t need the answer!

fans
NORDIC SAS USER GROUP

Creating Simulated Data Sets

News!

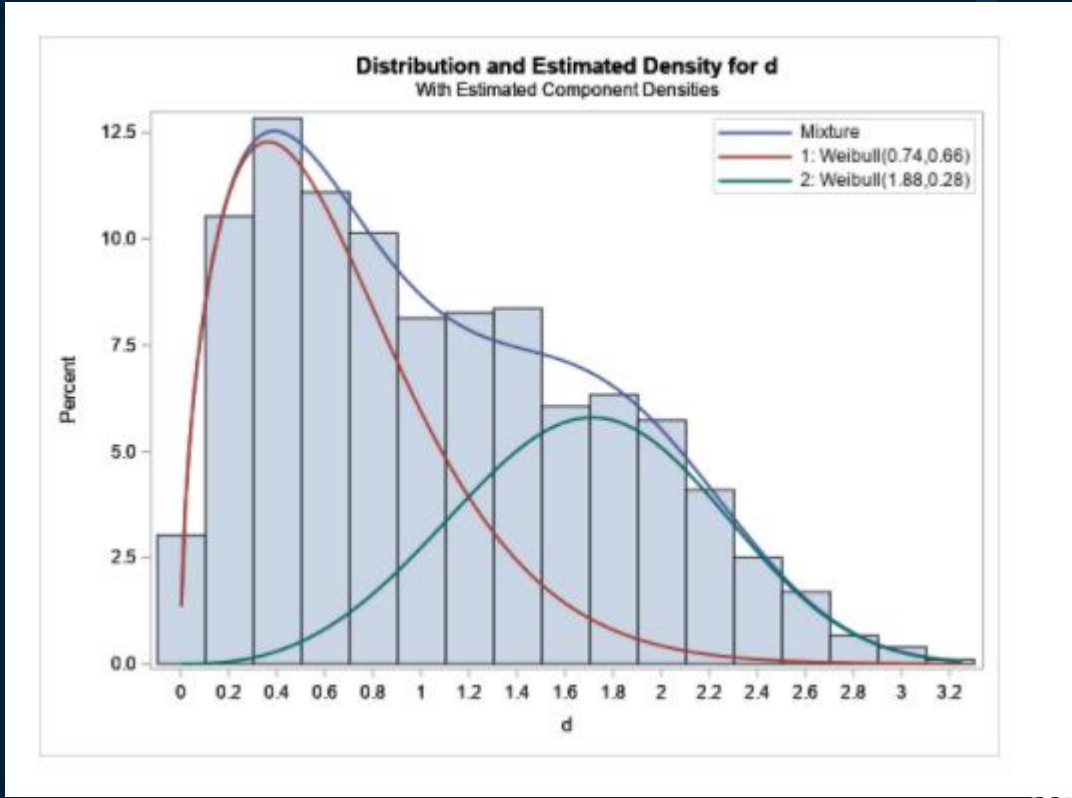
https://blogs.sas.com/content/sgf/2021/11/02/creating-simulated-data-sets

Function	Description
rand('Uniform')	Generates uniform random numbers (between 0 and 1)
rand('Normal',100,20)	Generates values from a normal distribution with a mean of 100 and a standard deviation of 20
rand('Bernoulli',.4)	Generates a 0 or 1 with a probability of a 1 equal to .4
rand('Binomial',.2,5)	Generates random numbers that represent the number of successes in a sample of size 5 with the probability of success equal to .2

News!

https://blogs.sas.com/content/iml/2021/11/01/fit-mixture-weibull-sas.html

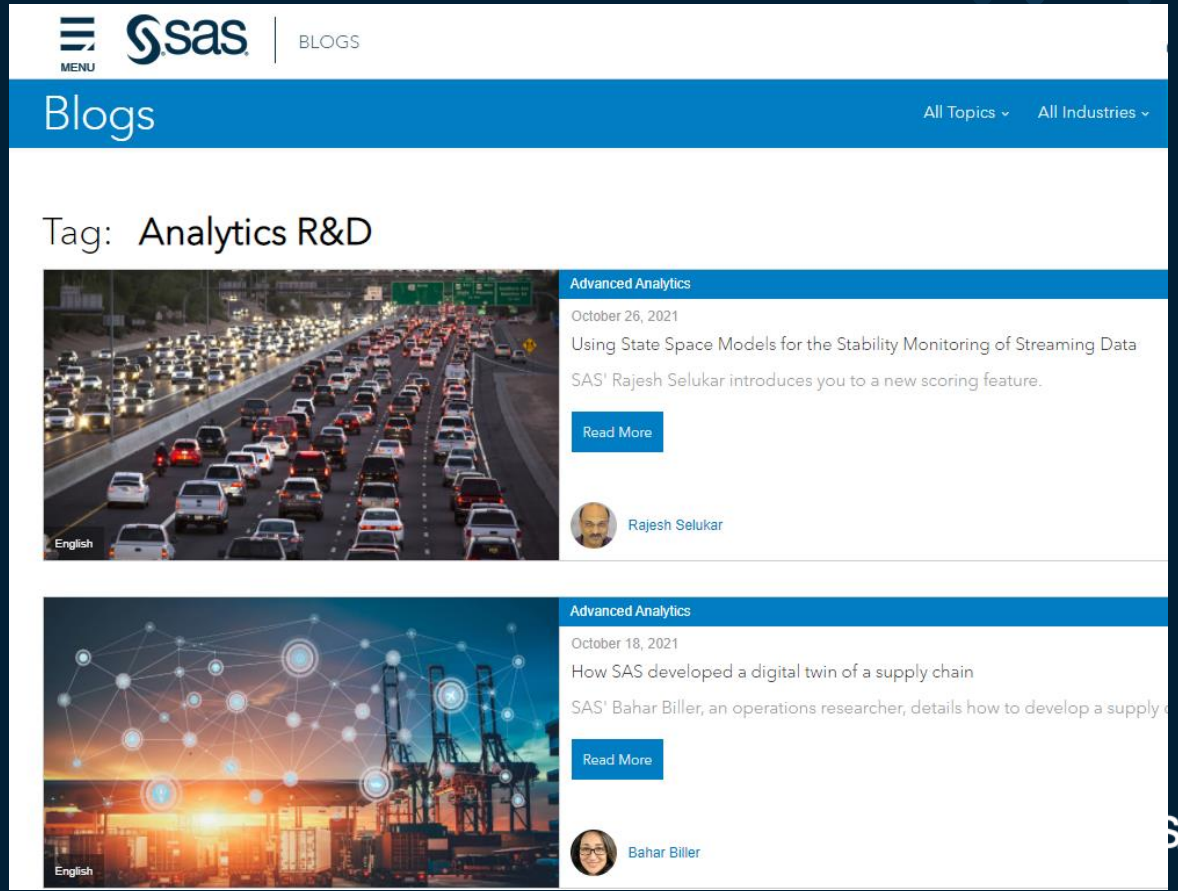
Fit a mixture of Weibull distributions in SAS



News!

https://blogs.sas.com/content/tag/analytics-rd/

The SAS Data Science Blog

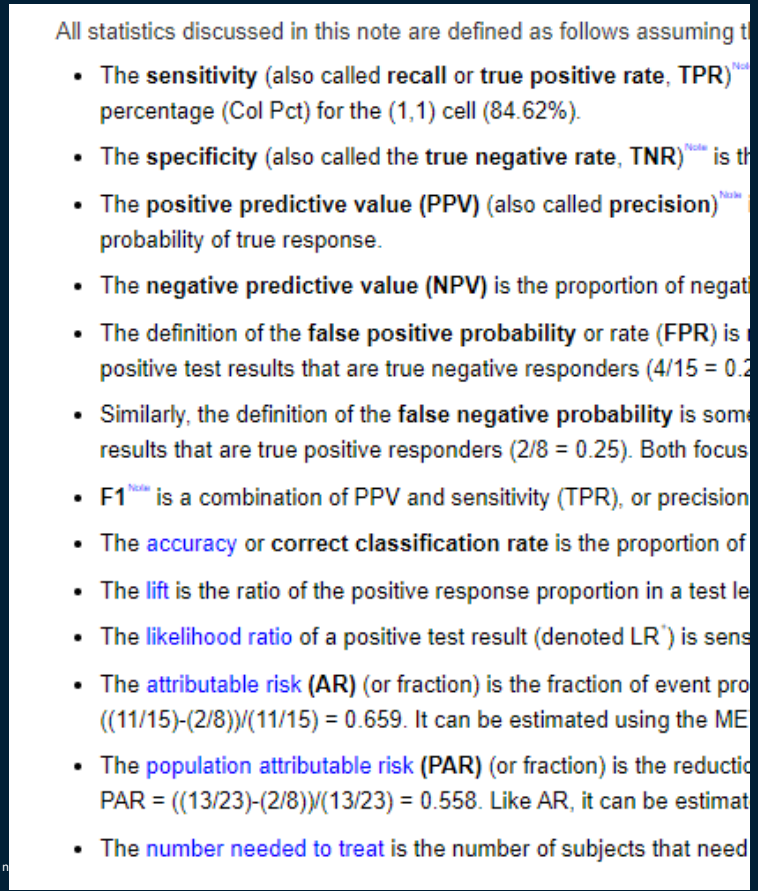


fans
NORDIC SAS USER GROUP

News!

https://support.sas.com/kb/24/170.html

Sensitivity, specificity, positive and negative predictive values, and other 2x2 table statistics



All statistics discussed in this note are defined as follows assuming t

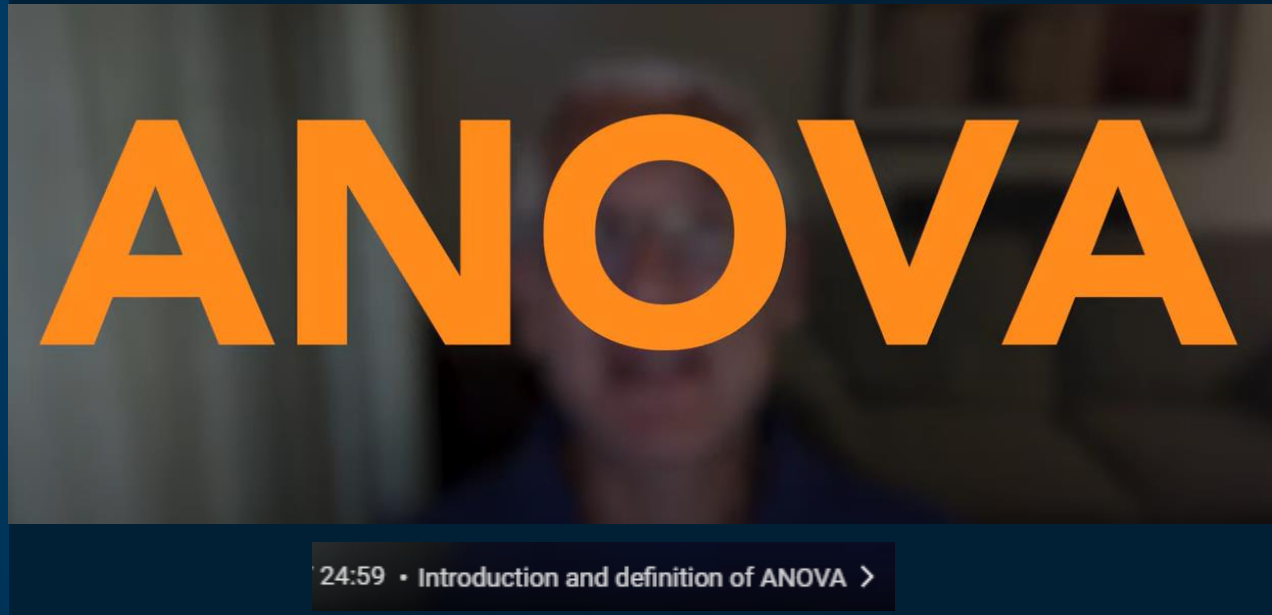
- The **sensitivity** (also called **recall** or **true positive rate**, **TPR**) percentage (Col Pct) for the (1,1) cell (84.62%).
- The **specificity** (also called the **true negative rate**, **TNR**) is th
- The **positive predictive value (PPV)** (also called **precision**) probability of true response.
- The **negative predictive value (NPV)** is the proportion of negati
- The definition of the **false positive probability** or rate (**FPR**) is positive test results that are true negative responders (4/15 = 0.2
- Similarly, the definition of the **false negative probability** is some results that are true positive responders (2/8 = 0.25). Both focus
- **F1** is a combination of PPV and sensitivity (TPR), or precision
- The accuracy or **correct classification rate** is the proportion of
- The lift is the ratio of the positive response proportion in a test le
- The likelihood ratio of a positive test result (denoted LR^+) is sens
- The attributable risk **(AR)** (or fraction) is the fraction of event pro ((11/15)-(2/8))/(11/15) = 0.659. It can be estimated using the ME
- The population attributable risk **(PAR)** (or fraction) is the reductio PAR = ((13/23)-(2/8))/(13/23) = 0.558. Like AR, it can be estimat
- The number needed to treat is the number of subjects that need

News!

https://www.youtube.com/watch?v=C1s0ZXNTheo&list=PLVV6eZFA22QwrXd6nSDU18E6XgXSMOs87

SAS Tutorial

What is ANOVA?



fans
NORDIC SAS USER GROUP

sas

Choose Your SAS Journey

https://www.sas.com/sas/offers/choose-your-sas-journey.html?referid=CS1487

- Become a SAS Data Ninja
- Fast Track Your Viya Adoption
- Become a Viya Admin Superhero
- The Art of Data Visualization
- Next-Gen AML & Transaction Monitoring
- SAS Starter Kit
- Unmasking Fraudsters in Banking
- Data Scientist Fast Track
- The Agile SAS Environment with DevOps
- Risk Lab Evolution

Collaborate with SAS Academic

= Students that work with SAS

Project Collaborations = Extra hands

Potential new employees with SAS skills

Contact:
Sara.Armandi@sas.com

Diverse Nyheder

IPO: Initial Public Offering

SAS will become
IPO ready by 2024

MENTI

Do you have:

Input?

Suggestions?

Ideas?

Share good videos/papers!

fans
NORDIC SAS USER GROUP

sas

Lottery

Win a SAS gadget!

fans
NORDIC SAS USER GROUP

sas

Lottery

Todays present!

Lottery

Sent a mail to:

frans.holm@sas.com

Write:

Subject: Lottery

Mail: Name + Address

Drawing

How:

Run | Cancel | Share | Debug | SASApp

Code

```
1  *** Lodtrækning ***;
2
3  %let Antal=15;
4
5  data Vinder_af_lodtrækning;
6    call streaminit(0);
7    do until (Vinder_nr>0);
8      Vinder_nr = round(&Antal. * rand("Uniform"));
9    end;
10 run;
11
```

Log | Output Data (1)

Where

VINDER_AF_LODTRÆKNING

	Vinder_nr
1	4

Model factory - From idea to model in production in a matter of hours

by Stian Fagerli Arntsen, Sparbank 1

fans
NORDIC SAS USER GROUP

sas

Break

We start again at 14:05 CET

DS2 coding and relation to VDMML

by Daniel Ringqvist, SAS

fans
NORDIC SAS USER GROUP

sas

From Data to Prediction on the Web

by Xavier Bizoux, SAS Global (GEL)

fans
NORDIC SAS USER GROUP

sas

From Data to Prediction on the Web

- The Git repository for the MAS only application:
- https://github.com/xavierBizoux/heart_attack_prediction
- The YouTube recording of the presentation:
- https://www.youtube.com/watch?v=8tabXbpdQ2M&t=146s

- The blog covering the usage of REST APIs to extract data from SAS Viya
- https://blogs.sas.com/content/sgf/2021/10/28/creating-a-react-web-app-using-sas-viya/
- The related Git repository:
- https://github.com/xavierBizoux/viya_app

Break

We start again at 15:20 CET

Proc Python/Python steps

by Wilbram Hazejager, SAS R&D

fans
NORDIC SAS USER GROUP

sas

Closing & Lottery

By Frans Holm, SAS

fans
NORDIC SAS USER GROUP

sas

MENTI

Do you have:

Input?

Suggestions?

Ideas?

Share good videos/papers!

fans
NORDIC SAS USER GROUP

sas

FANS

Next Data Science meeting

sas.com/fans -> Events -> All live Events

Network meetings

- 14/12 Customer Intelligence (Nordic) 13-14 CET
- 26/1 AML for AML users (Nordic) 9.00-12.10 CET

fans NORDIC SAS USER GROUP

sas

Network meetings

https://www.sas.com/sas/events/nordic/fans-nordic-sas-user-group/all-events-dk.html

Virtuelle FANS-netværksmøder i Danmark

Virtual FANS Network Meetings Finland

Virtuelle FANS nettverksmøter i Norge

Virtuella FANS-möten i Sverige

Don´t miss out – stay updated!

Nordic SAS User Newsletter

Monthly email with upcoming Nordic events and activities.

Subscription-based.
Subscribe

Lottery

Todays present!

Thank you for participating

Please give feedback

Frans.Holm@sas.com