

**A4Everyone**, български стартъп с фокус върху аналитичните услуги има удоволствието да покани членовете на **Data Science Society**, както и изкушените от математическото моделиране професионалисти на неформална среща.













Alexander Efremov

# **DATA SCIENCE, RETAIL**& OPPORTUNITIES





## **Agenda**

Trends in DS

ODS & Retail

Opportunities





## Trends in DS

From Big Enterprises to SME

Reduce human intervention

• Mixed Data





## **DS & Retail**

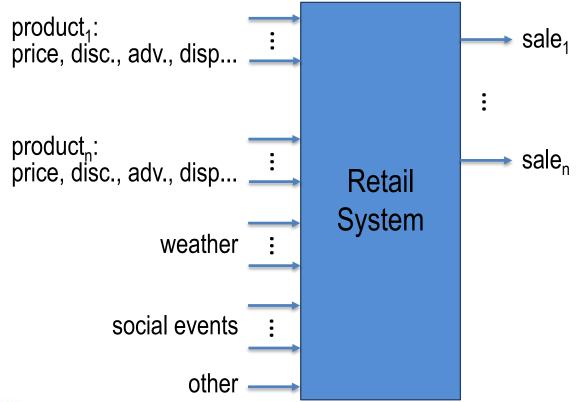
#### Retail Industry

- Why A4Retail?Demand forecast, Storage planning, Price Optimization, etc.
- O Retail System Spec.
  - Dynamic, Time-Varying, Non-Linear, MIMO system
- Retail Data Spec.
  - Missings, Outliers, Uninformative vars, Seasonality, Trend, etc.





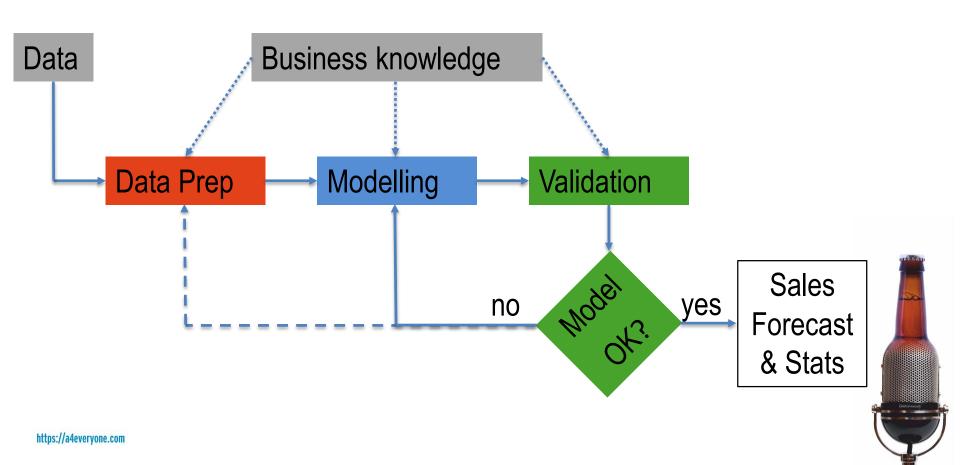
### **Automated Workflow**







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### **Automated Workflow**

#### **Data Prep**

#### Cleaning

- Miss, Outs, LowVar

#### **Preprocessing**

- Vars decomp. /detrend, deseas./
- Transform
- Standardization
- Remove multicol., etc.

#### **Modelling & Validation**

Multistage modelling

SWR - Model dev

Model val

#### **Sales forecast & Stats**

Model destandardization

Detransformation

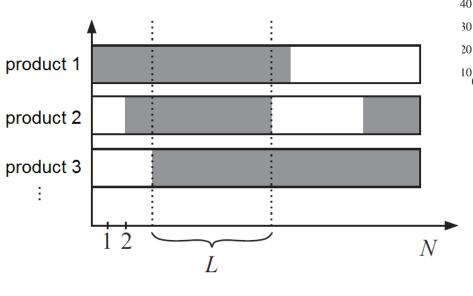
Add trend & seas



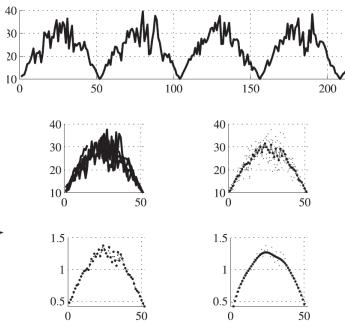


## **Data Prep**

#### Missings



#### Seasonality

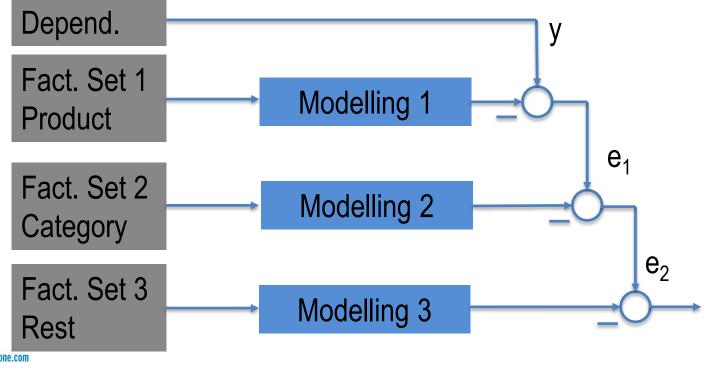






## Modelling

#### SWR & Multistage Modelling







## **DS & Retail**

A4Retail – Results

www.a4everyone.com





## **Opportunities**

- Opportunities
  - OEducation
  - **OBusiness**
  - OScience





#### **THANK YOU**

Alexander Efremov

# **DATA SCIENCE, RETAIL**& OTHER OPPORTUNITIES

