

YVES SAGAERT

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Professor | Research in Forecasting | VIVES | KU Leuven | IÉSEG
Director of Belgium's Forecasting Society: BELFORS



CURRENT PROFESSION

Head of research group Predictive AI & Digital Shift
VIVES University of Applied Sciences | KU Leuven

📅 2020 - Ongoing 📍 Bruges | Leuven

- Applied studies in companies with 15% forecast accuracy improvements & 40% less food waste
- Implementation of my algorithm in software platform has led to a reported increasing customer retention from 69% to 95%
- Expert at defining cutting-edge research scopes
- Securing 2+ m€ in competitive funding
- Proven track record of academic leadership

FORECASTING PROJECTS

Demand forecasting in industry
B2B | B2C | SME | Multinationals

📅 2016 - Ongoing 📍 Belgium

Machine Learning for Demand Forecasting with limited historical data is a challenge. I develop a solution, tailored to what the company can use and maintain:

- Explainable AI for strategic models with leading indicators
- Demand forecasting tool for European capacity planning
- Forecasting dashboard for school caterers and hospitals
- Data-driven anomaly detection for customer demand
- Google trend model framework for culinary sales
- Human - AI framework with automatic selection of leading indicators and their optimal leading effect

SOFTWARE & OPEN SOURCE

- **Greybox**: Toolbox for Model Building and Forecasting. R package (981k+ downloads, 3k per month)
- **Grafton**: GDPR anonymizer for any file using informed consent, encoding key and randomising numbers. Python package (392k+ downloads, 22k per month).
- **DeepRetail**: Forecasting package for retail using Deep Learning AI. Python package (35k+ downloads).
- **Catering Forecaster**: Forecasting for highly perishable dishes, software under licence.
- **Algorithms in commercial software**

EXPERIENCE

Strategic Innovation Manager for Harbour & Railway

📅 2017 - 2020 📍 Arcelor Mittal

- Team of 150 with 3 level-hierarchy
- Create a strategic vision to deploy self-driving trains in the next decade

S&OP Forecasting Consultant

📅 2013 - 2017 📍 Solventure

- Executive training for professionals in retail and Business-to-Business
- Create start-up with new R&D team

EDUCATION

Ph.D. in Industrial Engineering and Operations Research

📅 2013 - 2017 📍 Ghent University

Master in Industrial Engineering and Operations Research

📅 2011 - 2013 📍 Ghent University

Master in Electrotechnics and Automation

📅 2007 - 2011 📍 HOWEST

TECHNICAL SKILLS

Forecasting Leading Indicators
Decision Analytics Supply Chain
Statistics | ML | AI

Python R SQL Power BI SAS

LANGUAGES

Dutch
English
French
German

