

Intelligent Automation:

A Machine Learning Solution for
KPMG Belgium

BeCode (Ghent)
'The Tag Collectors'

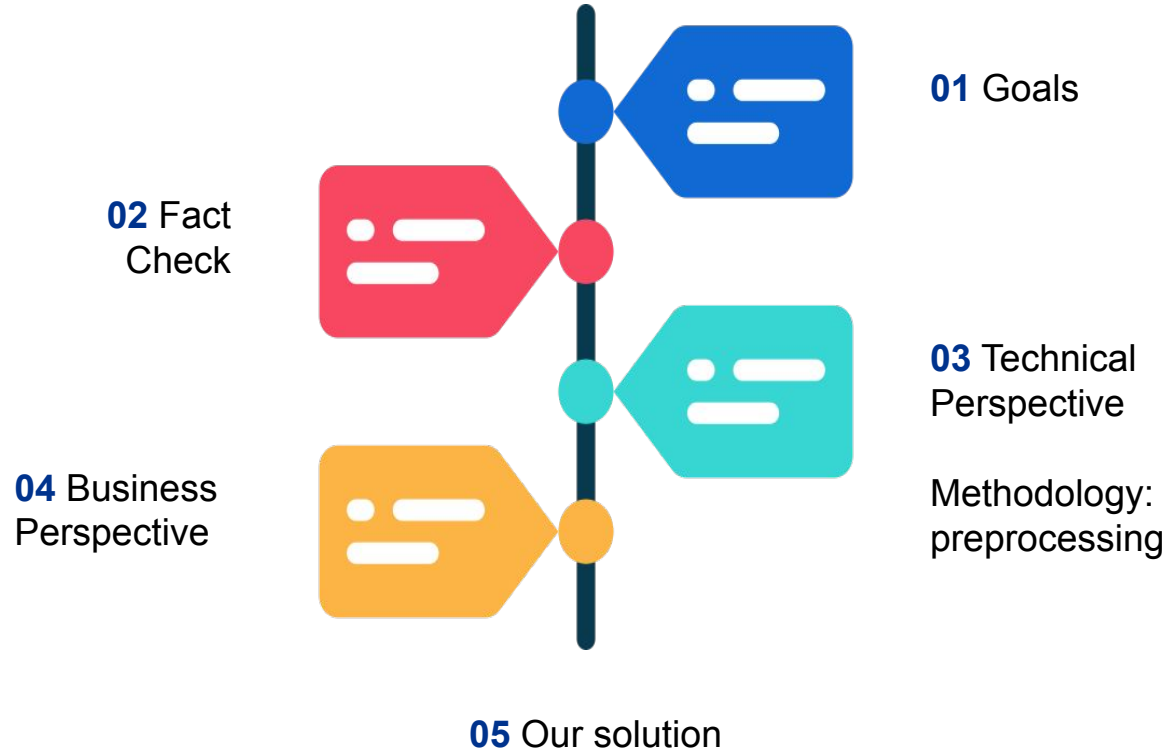
Anika Arevalo
Wouter van de Vijver (Project Manager)

Overview



- ✓ We understand **KPMG Belgium's** current need
- ✓ **'Intelligent Automation of Tax Data Collection and Categorisation'**: a NLP solution that adds value to your long-term corporate objectives

Content



Goals



Web scraping of the
Belgian Official
Gazette (Dutch)

Data exploration and
analysis

Intelligent automation
of tax gathering and
categorisation

Prototype optimising
KPMG's tax KMS and as
iterative design for further
development

01

02

03

04

Fact Check



‘The goal is not only to **filter specialist tax knowledge**, but ***all kinds of knowledge that could impact the company’s tax situation.***’

Technical Perspective



- ✓ **A small-sized NLP model ready for your web dev team to deploy as an app**
- ✓ **A large-sized NLP model for your Advanced Analytics & AI, and Intelligent Automation & New Tech departments to further optimise**

Methodology: preprocessing

- ✓ Plan A: create annotator
- ✓ Plan B: remove irrelevant words
- ✓ **Plan B outperforms plan A (for now)**

Th. DERMINE **PERSON** De Staatssecretaris voor Digitalisering, belast met
Administratieve Vereenvoudiging, Privacy en de Regie der gebouwen, M. MICHEL **PERSON** De
Staatssecretaris
voor Gendergelijkheid Gelijke Kansen en Diversiteit, S. SCHLITZ **PERSON** De Staatssecretaris
voor Asiel en Migratie, belast met de Nationale Loterij

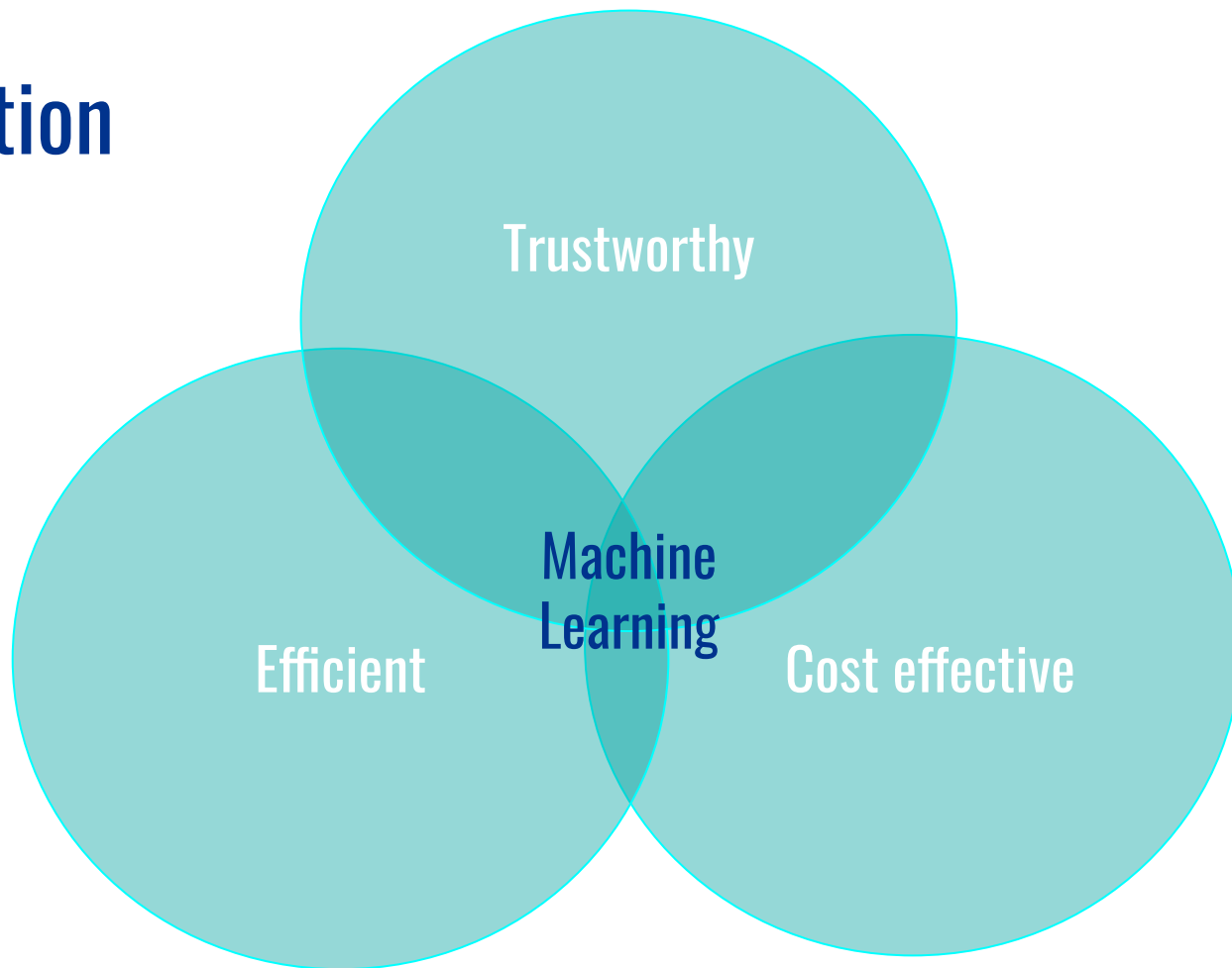
Business Perspective



- ✓ Improves workflows and processes that **boost productivity** particularly for your Corporate Tax Department
- ✓ In view of your **long-term corporate objectives**, provides an intelligent framework for evaluating and incorporating new tax-relevant information in Belgium as needed



Our solution



Thank you very much



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