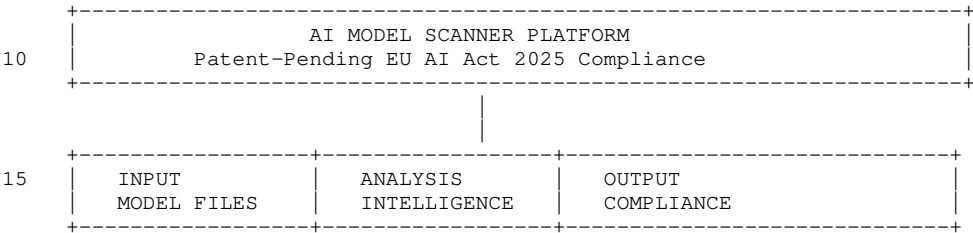
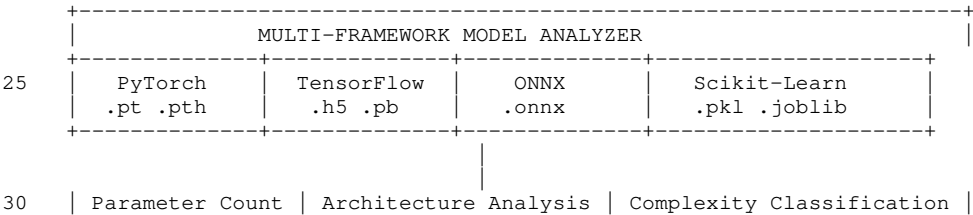


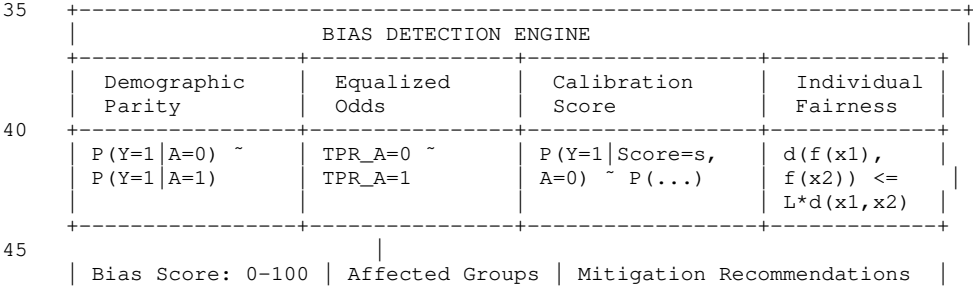
5 FIGUUR 1: SYSTEEM ARCHITECTUUR OVERZICHT



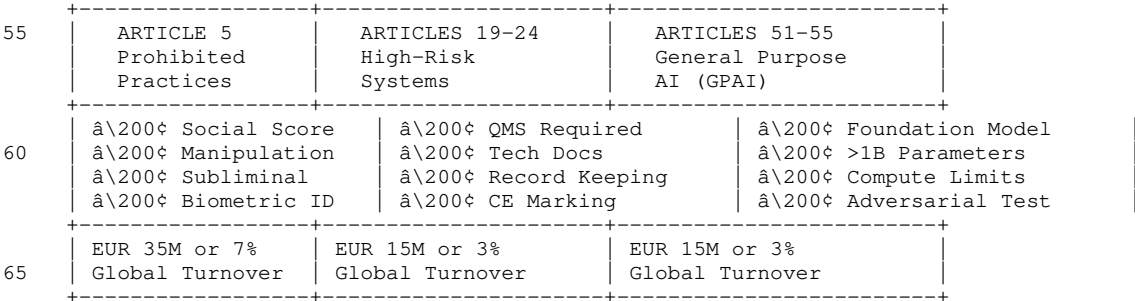
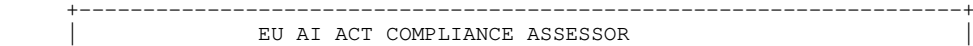
20 FIGUUR 2: MULTI-FRAMEWORK ANALYZER



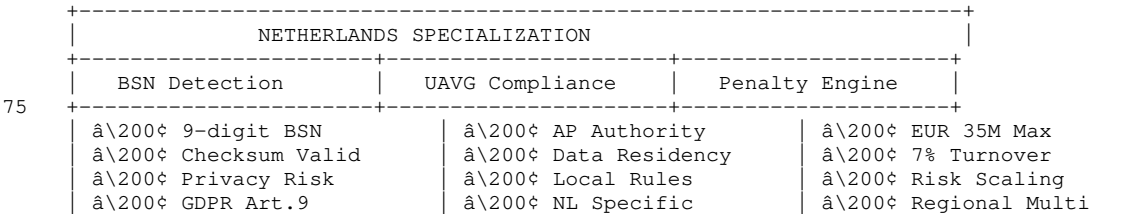
FIGUUR 3: BIAS DETECTION ENGINE



FIGUUR 4: EU AI ACT COMPLIANCE ASSESSOR



FIGUUR 5: NEDERLANDS SPECIALISATIE



80 +-----+-----+-----+

FIGUUR 6: MATHEMATISCHE FORMULES (GECORRIGEERD)

85 BIAS DETECTION ALGORITHMS:

Formule 1 - Demographic Parity:
 $P(Y=1|A=0) \sim P(Y=1|A=1)$

90 Formule 2 - Equalized Odds:
 $TPR_{A=0} \sim TPR_{A=1} \text{ EN } FPR_{A=0} \sim FPR_{A=1}$

Formule 3 - Calibration Score:
 $P(Y=1|Score=s,A=0) \sim P(Y=1|Score=s,A=1)$

95 Formule 4 - Individual Fairness:
 $d(f(x1),f(x2)) \leq L \cdot d(x1,x2)$

BSN CHECKSUM VALIDATIE (GECORRIGEERD - Officieel Nederlands Algoritme):

100 checksum = (digit_0 x 9) + (digit_1 x 8) + (digit_2 x 7) +
(digit_3 x 6) + (digit_4 x 5) + (digit_5 x 4) +
(digit_6 x 3) + (digit_7 x 2) - (digit_8 x 1)

105 BSN is geldig als: checksum mod 11 == 0

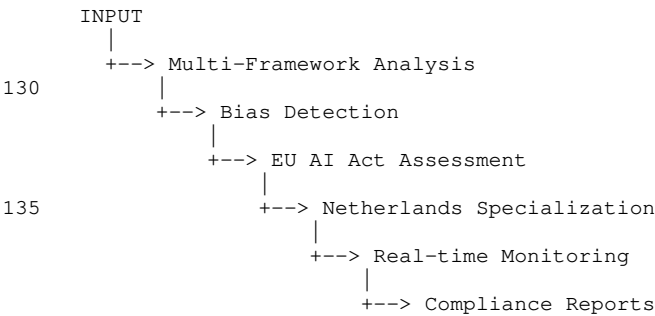
Voorbeeld: BSN 111222333
= (1x9) + (1x8) + (1x7) + (2x6) + (2x5) + (2x4) + (3x3) + (3x2) - (3x1)
= 9 + 8 + 7 + 12 + 10 + 8 + 9 + 6 - 3
110 = 66 mod 11 = 0 Y GELDIG

PENALTY CALCULATION:

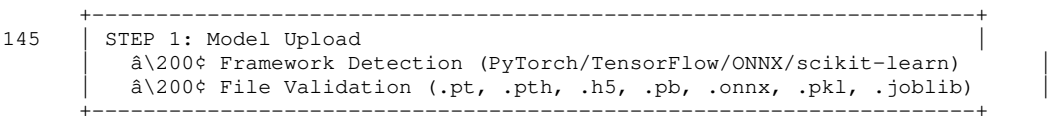
115 penalty = MAX(
fixed_amount x regional_multiplier,
revenue x percentage x regional_multiplier
)

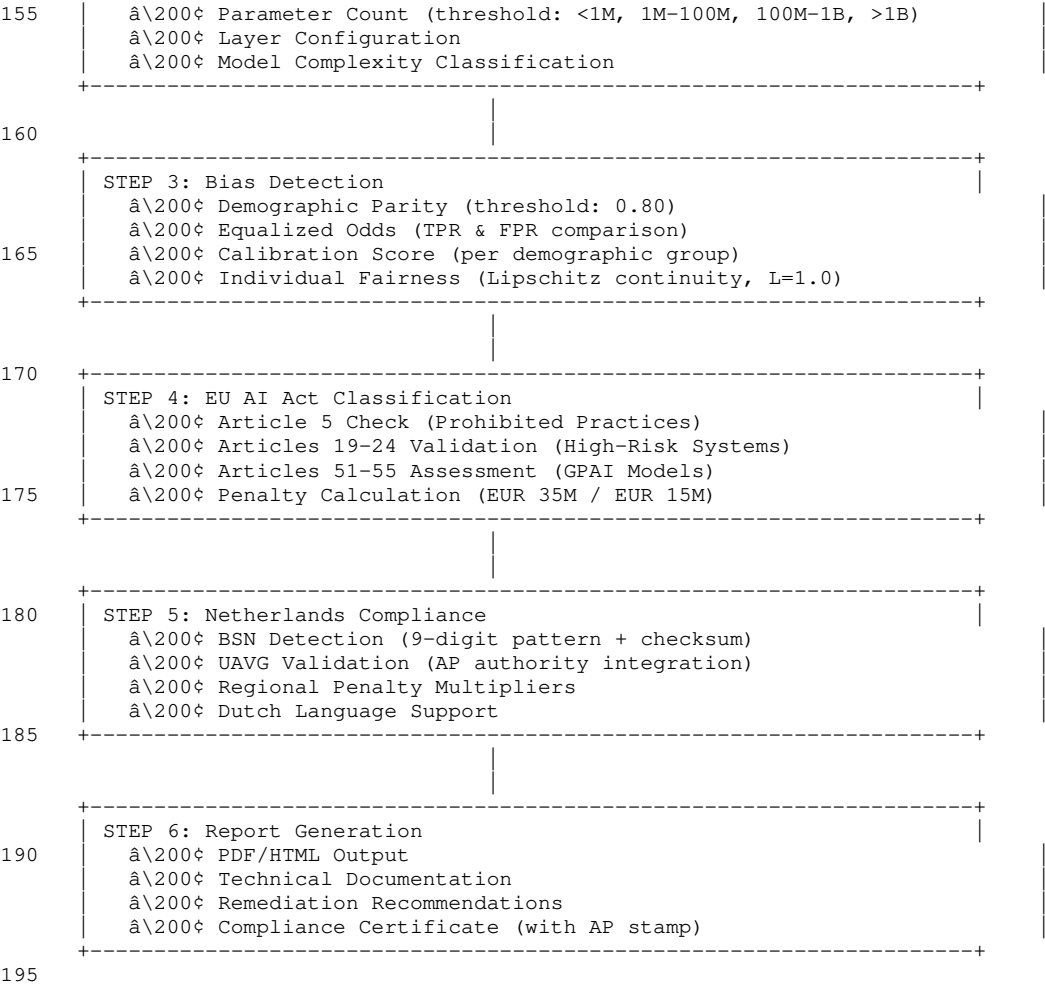
120 waarbij:
fixed_amount = EUR 35,000,000 (Artikel 5) of EUR 15,000,000 (Artikelen 19-24)
percentage = 7% (Artikel 5) of 3% (Artikelen 19-24)
regional_multiplier = Nederland-specifieke compliance factor

FIGUUR 7: SYSTEEM FLOW DIAGRAM

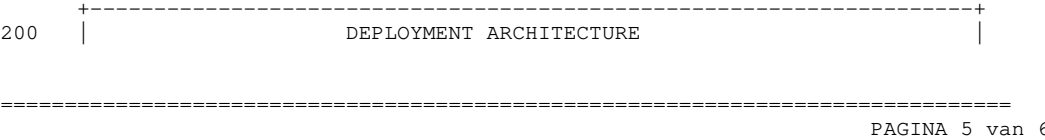


FIGUUR 8: PROCESSING PIPELINE





FIGUUR 9: DEPLOYMENT ARCHITECTUUR



FIGUUR 10: COMPETITIVE ADVANTAGE MATRIX

FEATURE	DataGuardian	OneTrust	TrustArc	IBM
Automated Bias	Y	N	N	W
Multi-Framework	Y	N	N	W
BSN Detection	Y	N	N	N
EU AI Act 2025	Y	W	W	W
Cost (Annual)	â\202~2.5K-25K	â\202~50K-500K	â\202~75K-400K	â\202~100K+
Cost Savings	BASELINE	95%	96%	97%

Legend: Y = Full Support, W = Partial Support, N = No Support

FIGUUR 11: VALUE PROPOSITION

240	+-----+ PATENT VALUE PROPOSITION +-----+		
245	Market Opportunity:	â\202~447M (EU-wide AI compliance market)	
	Target Market:	1.8M EU companies using AI	
	Netherlands Market:	â\202~23M (150,000 companies)	
	Penalty Prevention:	Up to EUR 35M per violation	
250	Cost Savings:	95% vs OneTrust/TrustArc	
	Processing Speed:	<30s (vs hours manually)	

	Accuracy:	95%+ bias, 98%+ compliance	
255	First-Mover Advantage:	EU AI Act enforced Feb 2025	
	Patent Protection:	20 years (until 2045)	
	Patent Value:	â\202~1M - â\202~2.5M	

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BELANGRIJKE TECHNISCHE CORRECTIES

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BSN FORMULE CORRECTIE:

OUD (FOUT):
 checksum = SUM(digit_i x (9-i)) mod 11 N INCORRECT

NIEUW (CORRECT):
 checksum = (digit_0 x 9) + (digit_1 x 8) + ... - (digit_8 x 1) Y CORRECT

De laatste digit (digit_8) gebruikt factor 1, NIET factor (9-8)=1 via formule.
 Dit is het officiële Nederlandse BSN 11-proef algoritme.

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EINDE TEKENINGEN EN FORMULES

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