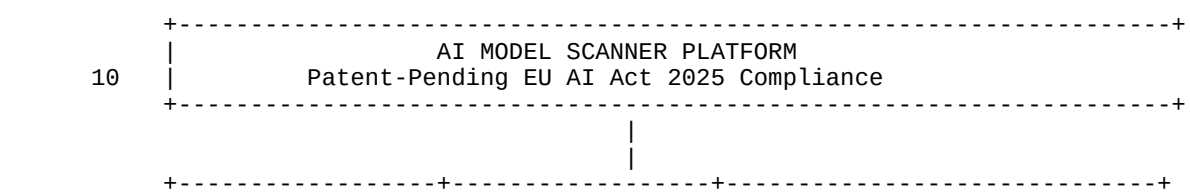
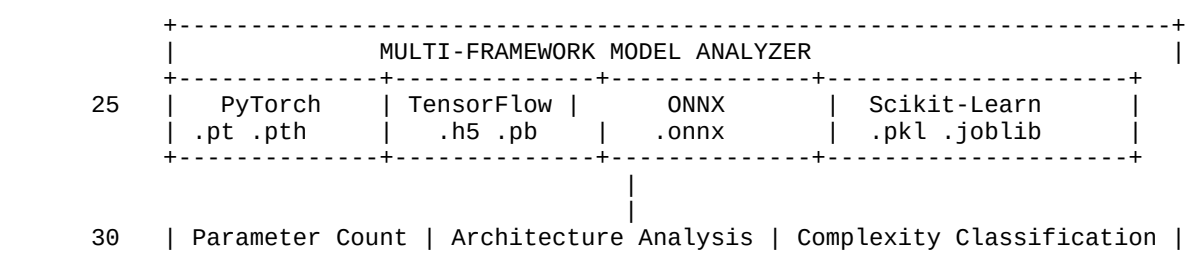
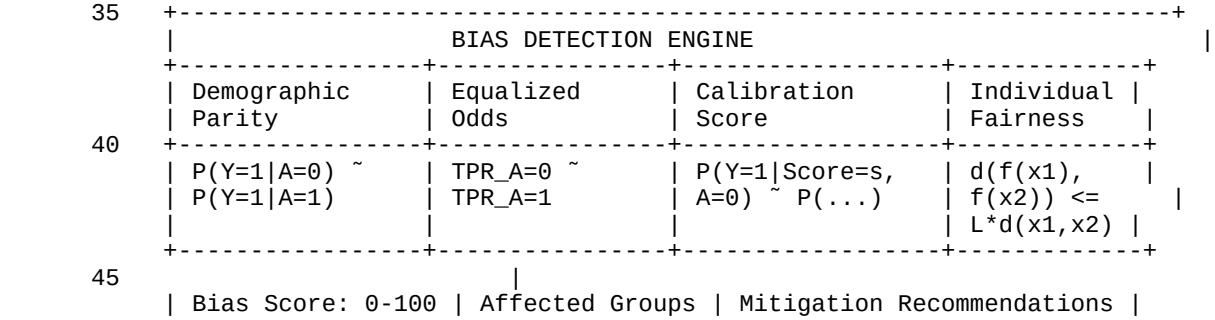
FIGUUR 1: SYSTEEM ARCHITECTUUR OVERZICHT



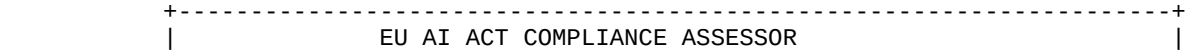
FIGUUR 2: MULTI-FRAMEWORK ANALYZER



FIGUUR 3: BIAS DETECTION ENGINE



FIGUUR 4: EU AI ACT COMPLIANCE ASSESSOR



ARTICLE 5 Prohibited Practices	ARTICLES 19-24 High-Risk Systems	ARTICLES 51-55 General Purpose AI (GPAI)
- Social Score - Manipulation - Subliminal - Biometric ID	- QMS Required - Tech Docs - Record Keeping - CE Marking	- Foundation Model - >1B Parameters - Compute Limits - Adversarial Test
EUR 35M or 7% Global Turnover	EUR 15M or 3% Global Turnover	EUR 15M or 3% Global Turnover

FIGUUR 5: NEDERLANDS SPECIALISATIE

NETHERLANDS SPECIALIZATION		
BSN Detection	UAVG Compliance	Penalty Engine
- 9-digit BSN - Checksum Valid - Privacy Risk - GDPR Art.9	- AP Authority - Data Residency - Local Rules - NL Specific	- EUR 35M Max - 7% Turnover - Risk Scaling - Regional Multi

FIGUUR 6: MATHEMATISCHE FORMULES (GECORRIGEERD)

BIAS DETECTION ALGORITHMS:

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

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

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

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

BSN CHECKSUM VALIDATIE (GECORRIGEERD - Officieel Nederlands Algoritme):

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)

BSN is geldig als: checksum mod 11 == 0

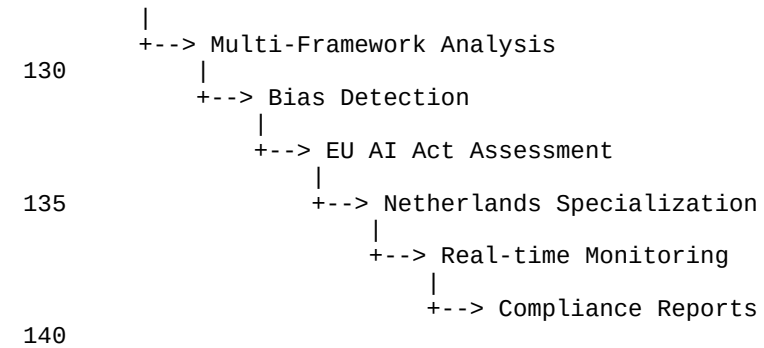
Voorbeeld: BSN 111222333
= (1x9) + (1x8) + (1x7) + (2x6) + (2x5) + (2x4) + (3x3) + (3x2) - (3x1)
= 9 + 8 + 7 + 12 + 10 + 8 + 9 + 6 - 3
= 66 mod 11 = 0 ✓ GELDIG

PENALTY CALCULATION:

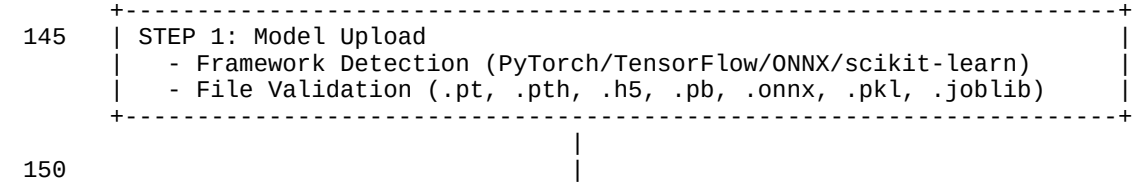
```
penalty = MAX(
            fixed_amount x regional_multiplier,
            revenue x percentage x regional_multiplier
          )

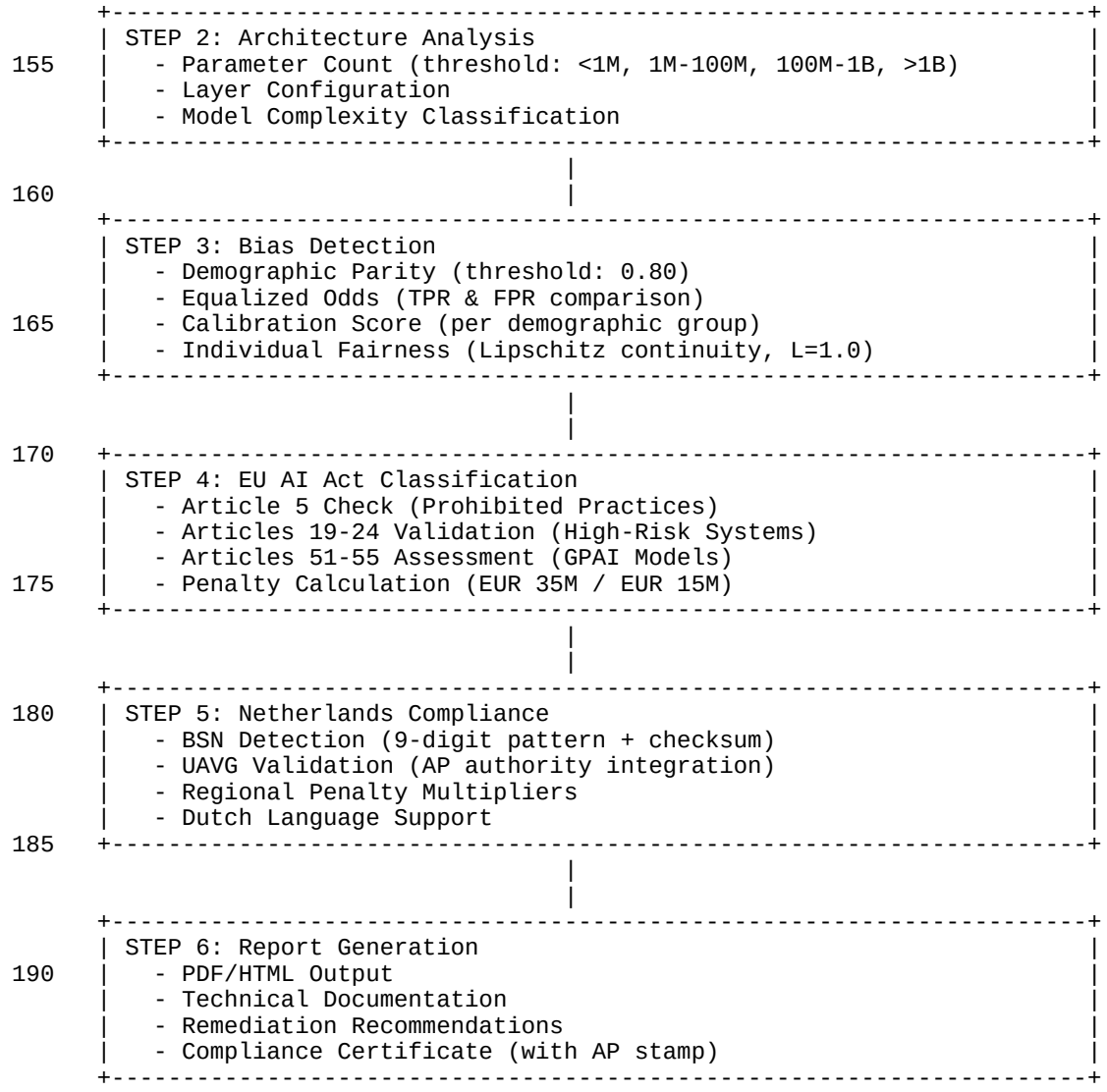
waarbij:
   fixed_amount = EUR 35,000,000 (Artikel 5) of EUR 15,000,000 (Artikelen 19-24)
   percentage = 7% (Artikel 5) of 3% (Artikelen 19-24)
   regional_multiplier = Nederland-specifieke compliance factor
```

FIGUUR 7: SYSTEEM FLOW DIAGRAM



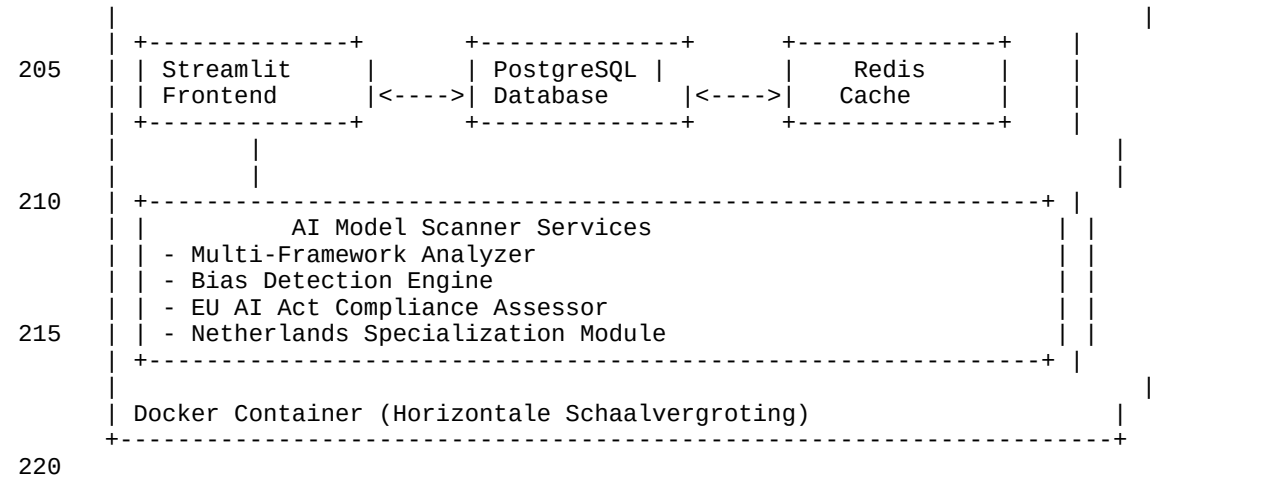
FIGUUR 8: PROCESSING PIPELINE





FIGUUR 9: DEPLOYMENT ARCHITECTUUR

DEPLOYMENT ARCHITECTURE



FIGUUR 10: COMPETITIVE ADVANTAGE MATRIX

FEATURE	DataGuardian	Systeem A	Systeem B	Systeem C
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)	EUR 2.5K-25K	EUR 50K-500K	EUR 75K-400K	EUR 100K+
Cost Savings	BASELINE	95%	96%	97%

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

FIGUUR 11: VALUE PROPOSITION

PATENT VALUE PROPOSITION	
Market Opportunity:	EUR 447M (EU-wide AI compliance market)
Target Market:	1.8M EU companies using AI
Netherlands Market:	EUR 23M (150,000 companies)
Penalty Prevention:	Up to EUR 35M per violation
Cost Savings:	95-97% vs commerciele oplossingen
Processing Speed:	<30s (vs hours manually)
Accuracy:	95%+ bias, 98%+ compliance
First-Mover Advantage:	EU AI Act enforced Feb 2025
Patent Protection:	20 years (until 2045)

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      | Patent Value:            EUR 1M - EUR 2.5M                                  |
      |                                                                          |
      +--------------------------------------------------------------------------+
260

      ============================================================================
      BELANGRIJKE TECHNISCHE CORRECTIES
      ============================================================================
265

      BSN FORMULE CORRECTIE:

      OUD (FOUT):
         checksum = SUM(digit_i x (9-i)) mod 11   ✗ INCORRECT
270

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

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

      ============================================================================
      EINDE TEKENINGEN EN FORMULES
      ============================================================================
```