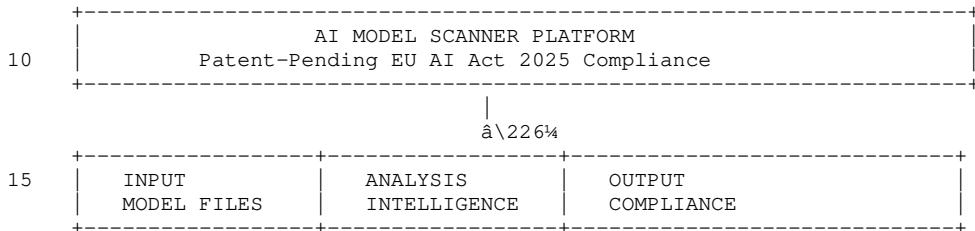
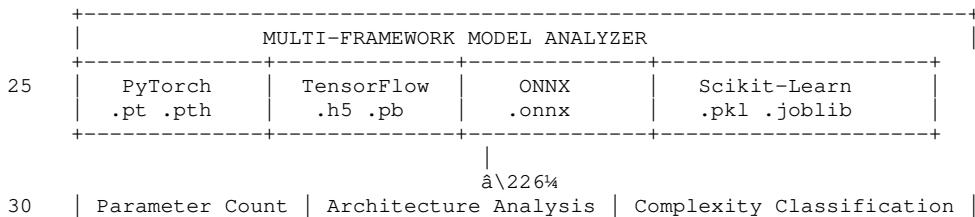


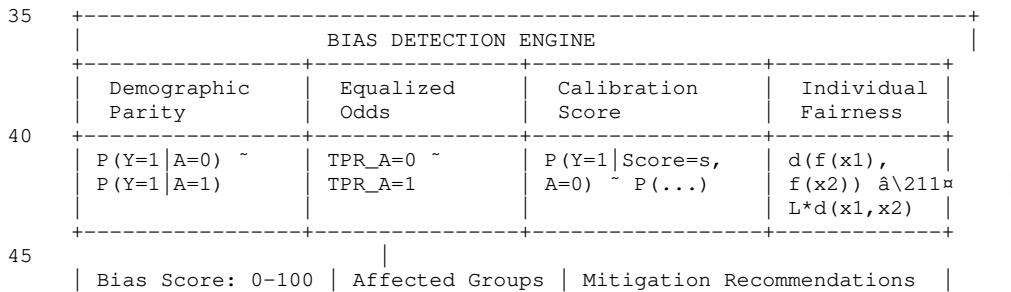
5 FIGUUR 1: SYSTEEM ARCHITECTUUR OVERZICHT



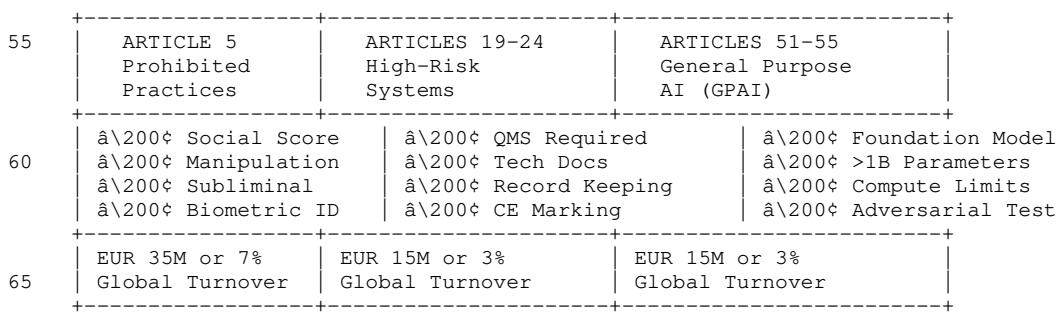
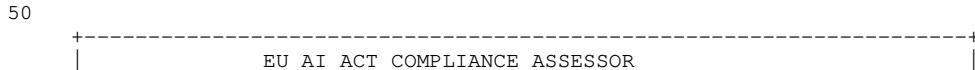
FIGUUR 2: MULTI-FRAMEWORK ANALYZER



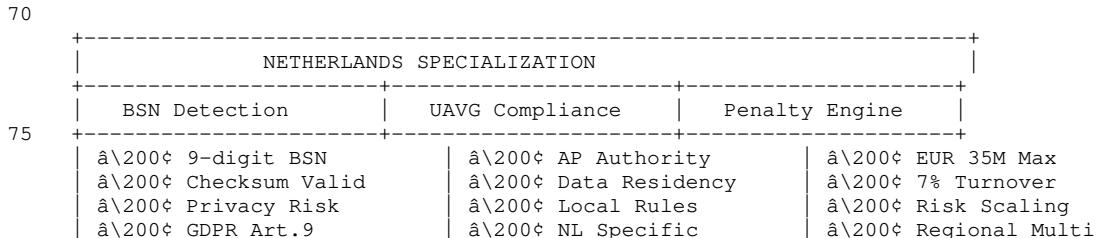
FIGUUR 3: BIAS DETECTION ENGINE



FIGUUR 4: EU AI ACT COMPLIANCE ASSESSOR



FIGUUR 5: NEDERLANDS SPECIALISATIE

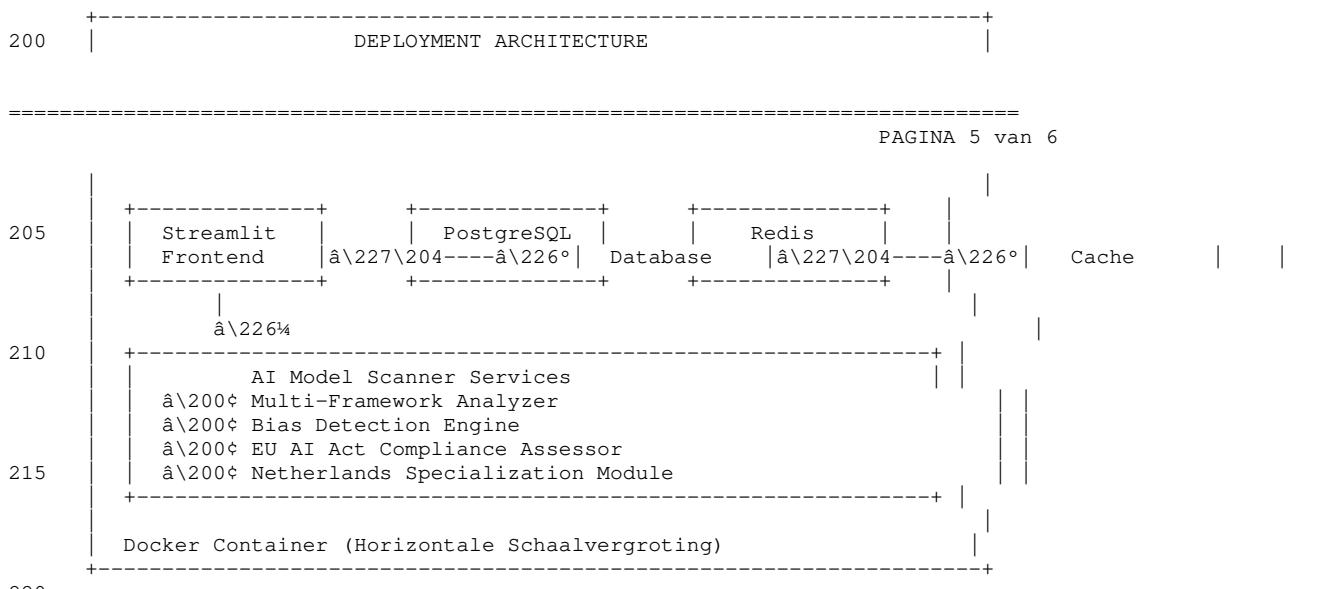



```

155 | STEP 2: Architecture Analysis
|   à\200¢ Parameter Count (threshold: <1M, 1M-100M, 100M-1B, >1B)
|   à\200¢ Layer Configuration
|   à\200¢ Model Complexity Classification
+-----+
|   à\226%
160 +-----+
| STEP 3: Bias Detection
|   à\200¢ Demographic Parity (threshold: 0.80)
|   à\200¢ Equalized Odds (TPR & FPR comparison)
|   à\200¢ Calibration Score (per demographic group)
|   à\200¢ Individual Fairness (Lipschitz continuity, L=1.0)
+-----+
|   à\226%
170 +-----+
| STEP 4: EU AI Act Classification
|   à\200¢ Article 5 Check (Prohibited Practices)
|   à\200¢ Articles 19-24 Validation (High-Risk Systems)
|   à\200¢ Articles 51-55 Assessment (GPAI Models)
|   à\200¢ Penalty Calculation (EUR 35M / EUR 15M)
+-----+
|   à\226%
180 +-----+
| STEP 5: Netherlands Compliance
|   à\200¢ BSN Detection (9-digit pattern + checksum)
|   à\200¢ UAVG Validation (AP authority integration)
|   à\200¢ Regional Penalty Multipliers
|   à\200¢ Dutch Language Support
+-----+
|   à\226%
185 +-----+
| STEP 6: Report Generation
|   à\200¢ PDF/HTML Output
|   à\200¢ Technical Documentation
|   à\200¢ Remediation Recommendations
|   à\200¢ Compliance Certificate (with AP stamp)
+-----+
|   à\226%
195

```

FIGUUR 9: DEPLOYMENT ARCHITECTUUR



FIGUUR 10: COMPETITIVE ADVANTAGE MATRIX

FEATURE	DataGuardian	OneTrust	TrustArc	IBM	
Automated Bias	à\234\223	à\234\227	à\234\227	à\234\227	à\232
Multi-Framework	à\234\223	à\234\227	à\234\227	à\234\227	à\232
BSN Detection	à\234\223	à\234\227	à\234\227	à\234\227	à\234\227
EU AI Act 2025	à\234\223	à\232	à\232	à\232	à\232
Cost (Annual)	à\202~2.5K-25K	à\202~50K-500K	à\202~75K-400K	à\202~100K+	
Cost Savings	BASELINE	95%	96%	97%	

235 Legend: \234\223 = Full Support, \232 = Partial Support, \234\227 = No Support

FIGUUR 11: VALUE PROPOSITION

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

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

260

BELANGRIJKE TECHNISCHE CORRECTIES

265

BSN FORMULE CORRECTIE:

OUD (FOUT):

checksum = $\sum_{i=0}^8 \text{digit}_i \cdot (9-i) \bmod 11$ \234\227 INCORRECT

270

NIEUW (CORRECT):

checksum = $(\text{digit}_0 \cdot 9) + (\text{digit}_1 \cdot 8) + \dots + (\text{digit}_8 \cdot 1)$ \234\223 CORRECT

275

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

EINDE TEKENINGEN EN FORMULES