

AI Model Scanner - Patent Drawings & Formulas

DRAWINGS/FORMULA SHEETS

FIGURE 1: SYSTEM ARCHITECTURE OVERVIEW

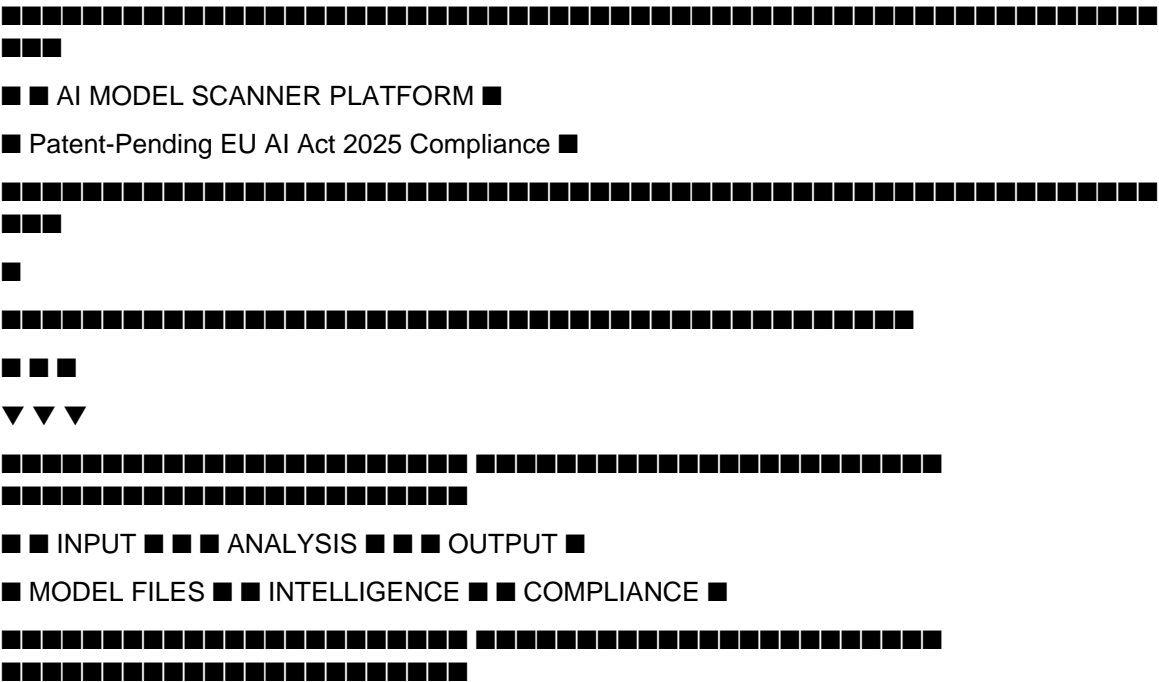
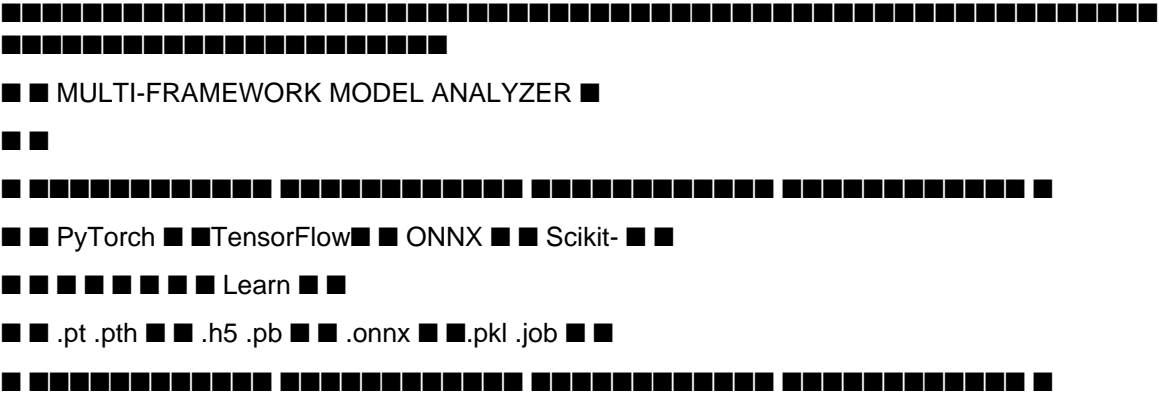


FIGURE 2: MULTI-FRAMEWORK ANALYZER



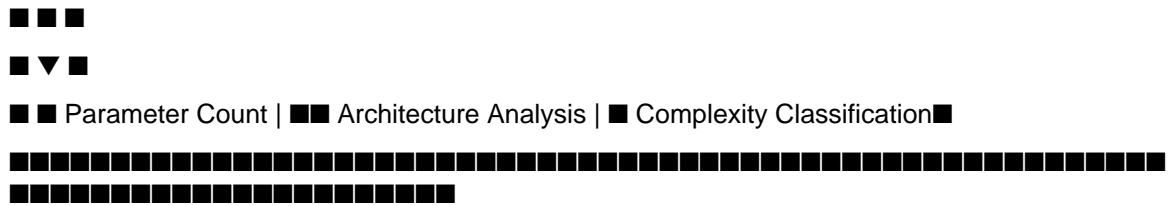


FIGURE 3: BIAS DETECTION ENGINE

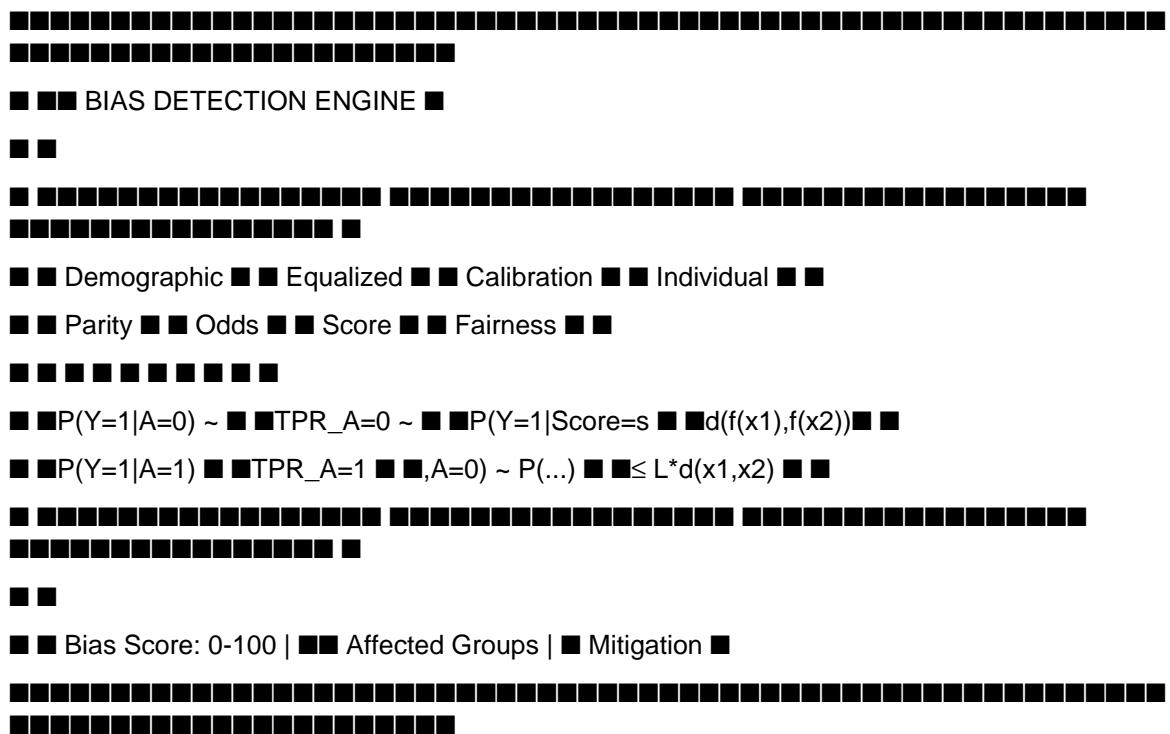


FIGURE 4: EU AI ACT COMPLIANCE ASSESSOR

[illegible]

NETHERLANDS SPECIALIZATION

BSN Detection

UAVG Compliance

Penalty Engine

9-digit BSN

AP Authority

EUR 35M Max

Checksum Val

Data Residenc

7% Turnover

Privacy Risk

Local Rules

Risk Scale

GDPR Art.9

NL Specific

Regional Mul

TPR_A=0 ~ TPR_A=1 AND FPR_A=0 ~ FPR_A=1

Formula 3 - Calibration Score:

$$P(Y=1|Score=s,A=0) \sim P(Y=1|Score=s,A=1)$$

Formula 4 - Individual Fairness:

$$d(f(x_1),f(x_2)) \leq L \cdot d(x_1,x_2)$$

BSN Checksum Validation:

$$\text{checksum} = \sum(\text{digit}_i \times (9-i)) \bmod 11$$

$$\text{valid} = (\text{remainder} < 10 \text{ AND } \text{remainder} = \text{digit}_9) \text{ OR } (\text{remainder} = 10 \text{ AND } \text{digit}_9 = 0)$$

Penalty Calculation:

$$\text{penalty} = \text{MAX}(\text{fixed_amount} \times \text{regional_multiplier}, \text{revenue} \times \text{percentage} \times \text{regional_multiplier})$$

FIGURE 7: SYSTEM FLOW DIAGRAM

INPUT -> Multi-Framework Analysis -> Bias Detection -> EU AI Act Assessment ->

Netherlands Specialization -> Real-time Monitoring -> Compliance Reports