AI Text Detection Analysis Report

Generated on October 31, 2025 at 03:07 PM

Detection Summary

Final Verdict:	Human-Written
AI Probability:	36.5%
Human Probability:	59.2%
Mixed Probability:	4.4%
Overall Confidence:	65.9%
Uncertainty Score:	35.1%
Consensus Level:	76.8%

Content Analysis

Content Domain:	General
Domain Confidence:	9.1%
Word Count:	642
Sentence Count:	34
Processing Time:	8.68s

Ensemble Analysis

Method: Confidence Calibrated Aggregation

Metric Weights

Metric	Weight
Structural	30.1%
Entropy	7.8%
Perplexity	25.5%
Semantic_Analysis	9.4%
Linguistic	12.6%
Multi_Perturbation_Stability	14.6%

Detailed Metric Analysis

Structural

Verdict:	MIXED (AI + HUMAN)
AI Probability:	58.0%
Human Probability:	42.0%
Confidence:	76.7%
Ensemble Weight:	30.1%

Analyzes sentence structure, length patterns, and statistical features

Detailed Metrics:

Metric	Value
Avg Sentence Length	18.37
Std Sentence Length	8.45
Avg Word Length	4.75
Std Word Length	2.65
Vocabulary Size	281.00
Type Token Ratio	0.43

Entropy

Verdict:	HUMAN
AI Probability:	22.9%
Human Probability:	58.2%
Confidence:	42.6%
Ensemble Weight:	7.8%

Evaluates token diversity and sequence unpredictability

Detailed Metrics:

Metric	Value
Char Entropy	4.10
Word Entropy	7.24
Token Entropy	7.44
Token Diversity	0.44
Sequence Unpredictability	1.00
Entropy Variance	0.00

Perplexity

Verdict:	HUMAN
AI Probability:	27.0%
Human Probability:	73.0%
Confidence:	55.5%
Ensemble Weight:	25.5%

Measures text predictability using language model cross-entropy

Detailed Metrics:

Metric	Value
Overall Perplexity	35.39
Normalized Perplexity	0.37
Avg Sentence Perplexity	189.51
Std Sentence Perplexity	217.96
Min Sentence Perplexity	21.98
Max Sentence Perplexity	852.09

Semantic Analysis

Verdict:	HUMAN
AI Probability:	34.0%
Human Probability:	66.0%
Confidence:	42.6%
Ensemble Weight:	9.4%

Examines semantic coherence, topic consistency, and logical flow

Detailed Metrics:

Metric	Value
Coherence Score	0.36
Consistency Score	0.88
Repetition Score	0.00
Topic Drift Score	0.71
Contextual Consistency	0.21
Avg Chunk Coherence	0.34

Linguistic

Verdict:	HUMAN
AI Probability:	26.3%
Human Probability:	64.6%
Confidence:	56.2%
Ensemble Weight:	12.6%

Assesses grammatical patterns, syntactic complexity, and style markers

Detailed Metrics:

Metric	Value
Pos Diversity	0.02
Pos Entropy	3.22
Syntactic Complexity	3.85
Avg Sentence Complexity	2.41
Grammatical Consistency	0.79
Transition Word Usage	0.03

Multi Perturbation Stability

Verdict:	HUMAN
AI Probability:	35.0%
Human Probability:	48.3%
Confidence:	72.9%
Ensemble Weight:	14.6%

Tests text stability under perturbation using curvature analysis

Detailed Metrics:

Metric	Value
Original Likelihood	-3.83
Avg Perturbed Likelihood	-3.83
Likelihood Ratio	1.00
Normalized Likelihood Ratio	0.50
Stability Score	0.50
Curvature Score	0.50

Detection Reasoning

Ensemble analysis indicates with high confidence (65.9%) that this text is **likely human-written** (human probability: 59.2%). Metrics show moderate consensus among detection methods. Uncertainty level: 35.1%. Analysis of 642 words in **general** domain using confidence-weighted aggregation with domain calibration ensemble method.

Key Indicators

Confidence Analysis

Confidence: 65.9% | **Uncertainty: 35.1%** | **Consensus: 76.8%** Good confidence supported by: general metric agreement and consistent detection patterns. • 2/6 metrics with high confidence • Ensemble uncertainty score: 35.1% • Metric consensus level: 76.8%

Uncertainty Analysis

Moderate Uncertainty: Some metric disagreement or borderline characteristics. Consider additional context.

AI Model Attribution

Predicted Model:	Llama-3
Attribution Confidence:	9.0%
Domain Used:	General

Model Probability Breakdown

Model	Probability
Llama 3	11.0%
Claude 3 Opus	9.8%
Gpt 3.5 Turbo	9.7%
Gemini Pro	8.5%
Deepseek Chat	8.5%

Attribution Reasoning

• **AI Model Attribution Analysis**

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• **Domain**: General

Recommendations

• **Likely human-written**: Consider context and writing history for complete assessment.

• **Context matters**: Consider author's background, writing history, and situational factors.

• **Educational approach**: Use detection results as conversation starters about appropriate AI use.

• **Continuous evaluation**: AI writing evolves rapidly; regular calibration updates maintain accuracy.