AI Text Detection Analysis Report

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Detection Summary

Final Verdict:	Human-Written
AI Probability:	32.8%
Human Probability:	63.1%
Mixed Probability:	4.0%
Overall Confidence:	70.1%
Uncertainty Score:	30.6%
Consensus Level:	75.4%

Content Analysis

Content Domain:	General
Domain Confidence:	9.3%
Word Count:	1101
Sentence Count:	82
Processing Time:	12.54s

Ensemble Analysis

Method: Confidence Calibrated Aggregation

Metric Weights

Metric	Weight
Structural	26.0%
Entropy	6.7%
Perplexity	33.6%
Semantic_Analysis	8.1%
Linguistic	12.0%
Multi_Perturbation_Stability	13.6%

Detailed Metric Analysis

Structural

Verdict:	MIXED (AI + HUMAN)
AI Probability:	58.0%
Human Probability:	42.0%
Confidence:	76.7%
Ensemble Weight:	26.0%

Analyzes sentence structure, length patterns, and statistical features

Detailed Metrics:

Metric	Value
Avg Sentence Length	13.05
Std Sentence Length	5.57
Avg Word Length	5.11
Std Word Length	2.84
Vocabulary Size	551.00
Type Token Ratio	0.49

Entropy

Verdict:	HUMAN
AI Probability:	22.9%
Human Probability:	58.2%
Confidence:	42.6%
Ensemble Weight:	6.7%

Evaluates token diversity and sequence unpredictability

Detailed Metrics:

Metric	Value
Char Entropy	4.13
Word Entropy	8.40
Token Entropy	7.95
Token Diversity	0.44
Sequence Unpredictability	1.00
Entropy Variance	0.00

Perplexity

Verdict:	HUMAN
AI Probability:	21.9%
Human Probability:	71.8%
Confidence:	84.0%
Ensemble Weight:	33.6%

Measures text predictability using language model cross-entropy

Metric	Value
Overall Perplexity	35.22
Normalized Perplexity	0.37
Avg Sentence Perplexity	316.50
Std Sentence Perplexity	620.55
Min Sentence Perplexity	19.99
Max Sentence Perplexity	3907.84

Semantic Analysis

Verdict:	HUMAN
AI Probability:	34.0%
Human Probability:	66.0%
Confidence:	42.6%
Ensemble Weight:	8.1%

Examines semantic coherence, topic consistency, and logical flow

Detailed Metrics:

Metric	Value
Coherence Score	0.30
Consistency Score	0.94
Repetition Score	0.00
Topic Drift Score	0.70
Contextual Consistency	0.11
Avg Chunk Coherence	0.29

Linguistic

Verdict:	HUMAN
AI Probability:	26.3%
Human Probability:	64.6%
Confidence:	59.3%
Ensemble Weight:	12.0%

Assesses grammatical patterns, syntactic complexity, and style markers

Detailed Metrics:

Metric	Value
Pos Diversity	0.01
Pos Entropy	3.36
Syntactic Complexity	2.67
Avg Sentence Complexity	1.68
Grammatical Consistency	0.58
Transition Word Usage	0.01

Multi Perturbation Stability

Verdict:	HUMAN
AI Probability:	28.3%
Human Probability:	71.7%
Confidence:	87.6%
Ensemble Weight:	13.6%

Tests text stability under perturbation using curvature analysis

Detailed Metrics:

Metric	Value
Original Likelihood	3.65
Avg Perturbed Likelihood	3.40
Likelihood Ratio	1.07
Normalized Likelihood Ratio	0.36
Stability Score	0.22
Curvature Score	0.26

Detection Reasoning

Ensemble analysis indicates with high confidence (70.1%) that this text is **likely human-written** (human probability: 63.2%). Metrics show moderate consensus among detection methods. Uncertainty level: 30.7%. Analysis of 1,101 words in **general** domain using confidence-weighted aggregation with domain calibration ensemble method.

Key Indicators

• **Multi_Perturbation_Stability** (13.6% weight): Text stability under perturbation (0.22)

Confidence Analysis

Confidence: 70.1% | **Uncertainty: 30.7%** | **Consensus: 75.4%** Good confidence supported by: general metric agreement and consistent detection patterns. • 3/6 metrics with high confidence • Ensemble uncertainty score: 30.7% • Metric consensus level: 75.4%

Uncertainty Analysis

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

AI Model Attribution

Predicted Model:	Deepseek-Chat
Attribution Confidence:	9.6%
Domain Used:	General

Model Probability Breakdown

Model	Probability
Deepseek Chat	9.2%
Llama 3	7.8%
Gemini Pro	7.8%
Gpt 3.5 Turbo	7.0%
Claude 3 Opus	7.0%

Attribution Reasoning

• **AI Model Attribution Analysis**

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• **Predicted Model**: Deepseek Chat

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.