Response Analyzer LLM

Al Response Quality & Safety Assessment

Google Gemini Pro-Powered Response Analysis

Overview

Purpose

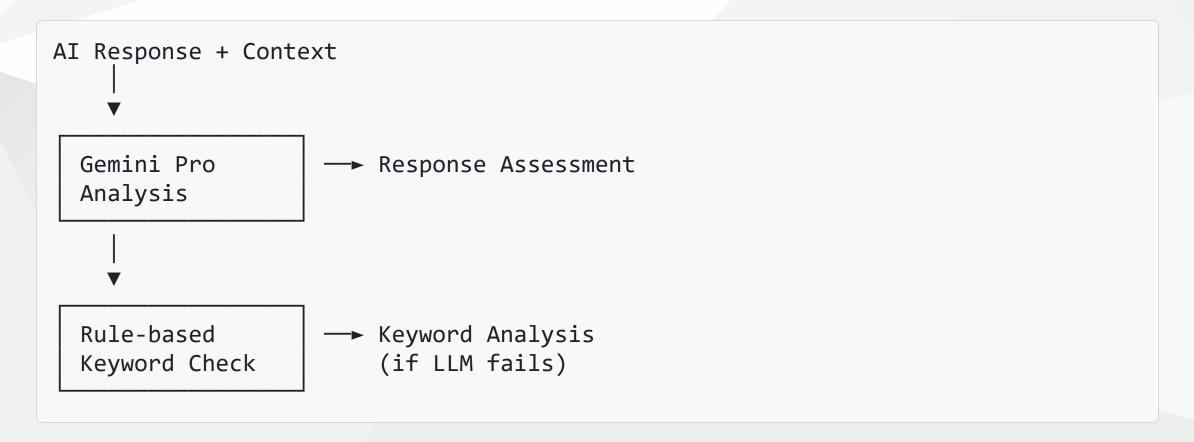
- Analyze Al-generated responses for appropriateness
- Safety assessment of girlfriend agent outputs
- Quality evaluation for response improvement
- Content filtering for sexual and inappropriate content

Model

- Primary: Google Gemini Pro
- Fallback: Rule-based keyword analysis
- Input: Al response + conversation context + user message
- Output: Pechance quality accessment with safety metrics

Core Functionality

Response Analysis Process



Analysis Categories

Content Appropriateness

- Contextual Relevance: Response matches conversation flow
- Tone Consistency: Matches girlfriend personality
- Energy Alignment: Appropriate to user's emotional state
- Safety Compliance: No harmful or inappropriate content

Sexual Content Detection

- Keyword Analysis: Explicit sexual terms
- Context Evaluation: Situational appropriateness
- Script Triggering: Sexual script activation criteria
- Boundary Pespect: User comfort level consideration

Quality Assessment

High Quality (0.8 - 1.0)

- Characteristics: Engaging, appropriate, contextually relevant
- Indicators: Natural flow, personality consistency, user engagement
- Response: Approve and send
- Enhancement: Minimal adjustments needed

Medium Quality (0.5 - 0.8)

- Characteristics: Adequate but improvable
- Indicators: Some relevance, minor tone issues
- Response: Approve with minor modifications
- Enhancement: Tone adjustment context improvement

Quality Assessment (Continued)

Low Quality (0.0 - 0.5)

- Characteristics: Poor relevance, inappropriate tone
- Indicators: Off-topic, personality inconsistency
- Response: Reject and regenerate
- Enhancement: Complete response revision

Safety Levels

SAFE

- Characteristics: Appropriate, supportive, engaging
- Indicators: Normal conversation, positive engagement
- Response: Approve without modification
- Script Behavior: Continue normal flow

CAUTION

- Characteristics: Borderline appropriate, needs monitoring
- Indicators: Mildly concerning content, tone issues
- Response: Approve with modifications
- Script Rehavior: Increased monitoring

Safety Levels (Continued)

UNSAFE

- Characteristics: Inappropriate, harmful, or offensive
- Indicators: Explicit content, harmful suggestions
- Response: Reject and regenerate
- Script Behavior: Safety intervention

Sexual Content Analysis

Detection Criteria

- **Keyword Threshold**: 3+ sexual keywords trigger analysis
- Context Evaluation: Situational appropriateness
- User Comfort: Respect user boundaries
- Script Activation: Sexual script triggering logic

Sexual Keywords

- Explicit: undress, naked, bedroom, body, sexy, hot
- Intimate: horny, arousal, desire, passion, caress
- Dominant: seduce, tease, dominate, submissive, naughty
- Action: dirty wild evalore intimate pleasure

Script Triggering Logic

Sexual Script Activation

- Threshold: 3+ sexual keywords detected
- Context: Appropriate conversation flow
- User State: Engaged and responsive
- Safety: No crisis indicators present

Script Prevention

- Crisis Protection: Never trigger during distress
- User Disinterest: Respect user boundaries
- Context Inappropriate: Situational awareness
- Safety Concerns: Rick assessment priority

LLM Prompt Engineering

Gemini Pro Response Analysis Prompt

```
You are an expert AI response quality assessor.
Analyze the AI-generated response for appropriateness and safety.
AI Response: "{ai_response}"
User Message: "{user_message}"
Conversation Context: {recent messages}
Energy Context: {energy data}
Provide analysis in JSON format:
  "quality score": 0.0-1.0,
  "safety_level": "SAFE|CAUTION|UNSAFE",
  "content_analysis": {
    "sexual_content": true/false,
    "keyword_count": number,
    "context appropriate": true/false
  "recommendations": ["list", "of", "suggestions"],
```

Rule-Based Fallback

Sexual Keyword Detection

- Primary Keywords: undress, naked, bedroom, body, sexy, hot
- Secondary Keywords: horny, arousal, desire, passion, caress
- Tertiary Keywords: seduce, tease, dominate, submissive, naughty
- Threshold: 3+ keywords = sexual content detected

Quality Indicators

- Positive: engaging, helpful, supportive, natural
- Negative: boring, repetitive, inappropriate, off-topic
- Context: relevant, appropriate, consistent
- Safety: safe concerning harmful

Response Modification

Approval Process

- 1. Quality Check: Response appropriateness assessment
- 2. Safety Validation: Harmful content detection
- 3. Context Verification: Conversation flow consistency
- 4. Final Approval: Send to user

Modification Process

- 1. Issue Identification: Specific problems identified
- 2. Modification Suggestions: Improvement recommendations
- 3. Regeneration: Request improved response
- 1 Pa-analysis: Quality check of modified response

Integration Points

Input Sources

- Girlfriend Agent: Al-generated responses
- Conversation Context: Recent message history
- Energy Data: User emotional state
- Safety Data: Risk assessment information

Output Destinations

- User Interface: Approved responses
- Script Manager: Sexual script triggering
- Girlfriend Agent: Response improvement feedback
- Safety Monitor: Content safety assessment

Performance Metrics

Analysis Speed

- Target: < 1 second per response
- **Gemini Pro**: ~0.7 seconds average
- Fallback: < 0.1 seconds
- Priority: Real-time conversation flow

Accuracy Metrics

- False Positives: Unnecessary rejections
- False Negatives: Inappropriate approvals
- Sexual Detection: Keyword accuracy
- Ouglity Assessment: Response improvement

Error Handling

LLM Failures

- Timeout: 5-second limit
- API Errors: Immediate fallback activation
- Invalid Responses: Default to rule-based analysis
- Safety Priority: Conservative approach to uncertainty

Data Validation

- Score Validation: 0.0 1.0 range enforcement
- Keyword Counting: Accurate sexual content detection
- Context Validation: Situational appropriateness
- Safety First: Err on side of caution

Debugging & Monitoring

Console Output

```
Response Analysis: APPROVED
```

- Quality Score: 0.85
 Safety Level: SAFE
- Sexual Content: false
- Q Confidence: 0.92

Analysis Tracking

- Response Count: Total analyses performed
- Approval Rate: Percentage of approved responses
- Modification Rate: Frequency of required changes
- Sexual Triggers: Script activation frequency

Configuration Options

Model Settings

- **Temperature**: 0.1 (consistent analysis)
- Max Tokens: 400 (sufficient for analysis)
- Timeout: 5 seconds
- Retry Attempts: 3 attempts

Analysis Thresholds

- Quality Minimum: 0.6 for approval
- **Sexual Threshold**: 3+ keywords
- Safety Threshold: CAUTION level triggers review
- Confidence Minimum: 0.7 for reliable analysis

Response Improvement

Feedback Loop

- 1. Analysis Results: Quality and safety metrics
- 2. Improvement Suggestions: Specific recommendations
- 3. Agent Learning: Response pattern optimization
- 4. Continuous Improvement: Ongoing quality enhancement

Quality Enhancement

- Tone Adjustment: Personality consistency
- Context Improvement: Better conversation flow
- Engagement Optimization: User interaction enhancement
- Safety Enhancement: Harmful content prevention

Sexual Script Management

Triggering Logic

- **Keyword Detection**: 3+ sexual keywords
- Context Validation: Appropriate conversation flow
- User State: Engaged and responsive
- Safety Check: No crisis indicators

Script Prevention

- Crisis Protection: Never during distress
- User Boundaries: Respect disinterest
- Context Inappropriate: Situational awareness
- Safety Priority: Pick accessment first

Future Enhancements

Planned Features

- Multi-language Analysis: International content assessment
- Voice Response Analysis: Tone and delivery evaluation
- Personalized Quality: User-specific response preferences
- Advanced Filtering: Sophisticated content detection

Advanced Capabilities

- Learning System: Response quality improvement over time
- Context Awareness: Deeper conversation understanding
- Emotional Intelligence: Better emotional response matching
- Prodictive Quality: Anticipate response effectiveness

Best Practices

Quality Assurance

- Consistent Standards: Reliable quality thresholds
- Context Awareness: Situational appropriateness
- User Focus: Response relevance to user needs
- Continuous Improvement: Ongoing quality enhancement

Safety First

- Conservative Approach: Err on side of caution
- Harm Prevention: Avoid inappropriate content
- User Protection: Respect boundaries and comfort
- Crisis Awareness: Never compromise safety

Conclusion

Key Strengths

- **Quality Assessment**: Comprehensive response evaluation
- Safety Analysis: Harmful content detection
- Sexual Detection: Script triggering logic
- ✓ Context Awareness: Situational appropriateness
- ✓ Integration: Seamless system coordination

Impact on System

- Response Quality: Improved Al interactions
- User Safety: Content appropriateness assurance
- Script Management: Intelligent scenario triggering

Questions & Discussion

Response Analyzer Deep Dive Complete!

Ready for the next component: Girlfriend Agent?