

# AI Content Detector

User Manual

Version 1.0  
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# AI Content Detector (AICD) - User Manual

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## Introduction

### What is AICD?

The AI Content Detector (AICD) is a sophisticated web application designed to identify AI-generated content with high accuracy. Built for academic institutions, educators, and content reviewers, AICD helps maintain academic integrity by detecting text that may have been generated by artificial

intelligence tools.

## Key Features

- **Advanced AI Detection:** Uses state-of-the-art neural models combined with rule-based analysis
- **Multiple Input Methods:** Support for direct text input and file uploads (TXT, DOCX, PDF)
- **Detailed Analysis:** Provides confidence scores, risk levels, and detailed explanations
- **User Authentication:** Secure account system with Google and GitHub integration
- **Analytics Dashboard:** Track your usage and view scan history
- **Export Capabilities:** Generate reports in PDF, JSON, and CSV formats
- **Real-time Feedback:** Instant analysis with detailed recommendations

## System Requirements

- **Web Browser:** Chrome, Firefox, Safari, or Edge (latest versions)
- **Internet Connection:** Required for all features
- **File Size Limits:** Maximum 10MB per file upload
- **Text Length:** Optimal range 500-2000 characters for best accuracy

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## Getting Started

### Accessing the Application

1. Open your web browser and navigate to the AICD application URL
2. **Landing Page:** You'll see the main landing page with options to:
  - Start detecting content immediately (guest mode)
  - Sign in to access advanced features
  - Learn more about the system

### Quick Start (Guest Mode)

For immediate use without an account:

1. Click "Start detecting now" on the landing page
2. Navigate to the Content Detection page
3. Choose your input method:
  - Text Input: Paste or type text directly
  - File Upload: Upload a document for analysis
4. Click "Analyze Content" to get results

## **Creating an Account (Recommended)**

For full access to features like scan history, analytics, and export capabilities:

1. Click "Sign Up" in the navigation menu
2. Choose your registration method:
  - Email & Password: Fill out the registration form
  - Google Account: Sign up with Google (one-click)
  - GitHub Account: Sign up with GitHub (one-click)
3. Complete the verification process if required
4. You'll be automatically signed in and redirected to the dashboard

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## **Account Management**

### **Profile Settings**

Access your profile by clicking your user icon in the navigation bar:

- View Profile Information: Name, email, account creation date
- Update Profile: Change your display name and preferences
- Security Settings: Change password, enable two-factor authentication
- Account Actions: Disable or delete your account

### **Authentication Options**

## Email & Password

- Standard email/password authentication
- Password reset functionality available
- Remember me option for convenience

## Social Login

- Google: One-click sign-in with your Google account
- GitHub: One-click sign-in with your GitHub account
- Automatic profile information import

## Account Security

- Password Requirements: Minimum 8 characters with mixed case, numbers, and symbols
- Session Management: Automatic logout after inactivity
- Data Protection: All personal data is encrypted and securely stored

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## Content Detection Features

### Text Input Analysis

#### Direct Text Entry

1. Navigate to Content Detection page
2. Select the "Text" tab
3. Paste or type your content in the text area
4. Character Limits:
  - Minimum: 500 characters (for optimal accuracy)
  - Maximum: 2000 characters (optimized for processing speed)
5. Click "Analyze Content" to start detection

#### Text Input Tips

- Optimal Length: 500-2000 characters provide the best accuracy

- Language Support: Primarily optimized for English text
- Content Types: Works best with academic writing, essays, articles, and formal text
- Real-time Validation: The system shows character count and warnings

## **File Upload Analysis**

### **Supported File Formats**

- TXT: Plain text files
- DOCX: Microsoft Word documents
- PDF: Portable Document Format files

### **Upload Process**

1. Select the "File Upload" tab
2. Drag and Drop: Drag files directly onto the upload area, or
3. Browse Files: Click "Browse Files" to select from your computer
4. File Validation: System automatically checks file type and size
5. Processing: File content is extracted and analyzed
6. Results: Same detailed analysis as text input

### **File Upload Limits**

- Maximum File Size: 10MB per file
- Processing Time: Varies by file size (typically 5-30 seconds)
- Content Extraction: Automatic text extraction from supported formats

## **Batch Processing**

For users with multiple documents:

1. Upload files one at a time
2. Each analysis is saved to your scan history (if signed in)
3. Export multiple results using the batch export feature

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# Understanding Results

## Analysis Components

Every analysis provides comprehensive results across multiple dimensions:

### • AI Probability Score

- Range: 0% to 100%
- Interpretation:
  - 0-20%: Likely Human-Written
  - 21-40%: Possibly Human-Written
  - 41-60%: Uncertain/Borderline
  - 61-80%: Likely AI-Generated
  - 81-100%: Highly Likely AI-Generated

### • Confidence Score

- What it means: How certain the system is about its prediction
- Calculation: Based on agreement between neural and rule-based models
- Levels:
  - High (80%+): Very reliable prediction
  - Medium (60-80%): Good reliability
  - Low (<60%): Use with caution, consider human review

### • Risk Level Assessment

- Very High: Strong indicators of AI generation
- High: Multiple AI indicators present
- Medium: Some AI characteristics detected
- Low: Few AI indicators
- Very Low: Strong human writing characteristics

### • Classification Labels

- Highly Likely AI-Generated: Strong confidence in AI detection

- Likely AI-Generated: Good confidence in AI detection
- Possibly AI-Generated: Weak indicators of AI generation
- Uncertain: Borderline case requiring human judgment
- Possibly Human-Written: Weak indicators of human writing
- Likely Human-Written: Good confidence in human writing
- Highly Likely Human-Written: Strong confidence in human writing

## Detailed Analysis Features

### Method Information

- Detection Method Used: Neural-only, Rule-based, or Ensemble
- Model Agreement: How well different detection methods agree
- Processing Time: Time taken for analysis

### Feedback Messages

The system provides contextual feedback including:

- Writing Style Analysis: Observations about sentence structure and vocabulary
- Pattern Recognition: Identified patterns that suggest AI or human authorship
- Confidence Indicators: Factors that increase or decrease confidence

### Recommendations

Based on the analysis, you'll receive:

- Next Steps: Suggested actions based on the results
- Review Suggestions: Areas that might need human verification
- Improvement Tips: How to get better analysis results

## Interpreting Borderline Results

When results are uncertain (40-60% AI probability):

- Consider Context: Academic level, writing style, subject matter
- Human Review: Always recommended for important decisions
- Additional Analysis: Try analyzing different sections separately



- Multiple Methods: Compare results from different detection approaches

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## **File Upload & Supported Formats**

### **Supported File Types**

#### **Plain Text Files (.txt)**

- Best For: Simple text documents, code files, scripts
- Processing: Direct text extraction
- Limitations: No formatting preservation

#### **Microsoft Word Documents (.docx)**

- Best For: Academic papers, essays, reports
- Processing: Advanced text extraction preserving structure
- Features Supported:
  - Body text extraction
  - Header and footer text
  - Table content
  - List formatting
- Limitations: Images and complex formatting ignored

#### **PDF Documents (.pdf)**

- Best For: Published papers, articles, formatted documents
- Processing: OCR and text extraction
- Features Supported:
  - Text-based PDFs (preferred)
  - Scanned documents (with OCR)
  - Multi-column layouts
- Limitations:
  - Image-heavy PDFs may have reduced accuracy
  - Complex layouts may affect text extraction quality

## Upload Process Details

### Step-by-Step Upload

1. File Selection: Choose your file using drag-and-drop or file browser
2. Validation: System checks file type, size, and format
3. Upload Progress: Real-time progress indicator
4. Text Extraction: Automatic content extraction from the file
5. Analysis: Same AI detection process as text input
6. Results Display: Complete analysis with file metadata

### File Processing Information

- Extraction Time: 2-10 seconds depending on file size and complexity
- Text Preview: Shows extracted text for verification
- Metadata Capture: File name, size, type, and upload timestamp
- Error Handling: Clear error messages for unsupported or corrupted files

## Best Practices for File Upload

### Preparing Your Files

- Clean Text: Ensure text is clearly readable
- Appropriate Size: Keep files under 10MB for optimal processing
- Format Selection: Use DOCX for formatted documents, TXT for plain text
- Quality Check: Verify file isn't corrupted before upload

### Troubleshooting Upload Issues

- File Too Large: Compress or split large documents
- Unsupported Format: Convert to supported format (TXT, DOCX, PDF)
- Extraction Errors: Try saving in a different format
- Network Issues: Check internet connection and retry

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# Analytics Dashboard

## Accessing Analytics

For Authenticated Users Only:

1. Sign in to your account
2. Navigate to your Profile page
3. View the Analytics section for usage statistics

## Available Analytics

### Scan History

- Recent Scans: List of your recent content analyses
- Scan Details: Date, time, content type, and results summary
- Search & Filter: Find specific scans by date or content type
- Bulk Actions: Export or delete multiple scan records

### Usage Statistics

- Total Scans: Number of analyses performed
- Content Types: Breakdown by text input vs. file upload
- Detection Results: Distribution of AI vs. human classifications
- Accuracy Trends: Your usage patterns over time

### Performance Metrics

- Average Confidence: Your typical confidence scores
- Processing Times: Average analysis duration
- File Types: Most commonly uploaded file formats
- Success Rate: Percentage of successful analyses

## Data Export

### Export Your Data

- Scan History: Download complete scan history as CSV
- Analytics Summary: Export usage statistics
- Individual Reports: Download specific analysis reports
- Bulk Export: Export multiple scans at once

## Data Retention

- Storage Period: Scan data retained for 12 months
- Privacy Controls: Delete individual scans or entire history
- Data Portability: Export all your data at any time

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# Export & Reporting

## Available Export Formats

### PDF Reports

- Professional Format: Formatted for sharing and archiving
- Complete Analysis: All detection results and metadata
- Customizable: Add custom title and notes
- Print-Ready: Optimized for printing and digital sharing

### JSON Data Export

- Machine-Readable: For integration with other systems
- Complete Data: All analysis data and metadata
- API-Compatible: Standard JSON format for developers
- Bulk Export: Multiple analyses in single file

### CSV Spreadsheet Export

- Data Analysis: Import into Excel, Google Sheets, or other tools
- Tabular Format: Organized rows and columns
- Bulk Data: Multiple scans in one spreadsheet
- Custom Fields: Select which data to include

## Creating Reports

### Individual Analysis Reports

1. Complete an analysis on the Content Detection page
2. Click "Export Report" button in the results section
3. Choose your preferred format (PDF, JSON, CSV)
4. Customize Report (for PDF):
  - Add custom title
  - Include additional notes
  - Select sections to include
5. Click "Generate Report" to download

### Batch Reports

1. Go to your Profile page
2. Navigate to Scan History
3. Select multiple scans using checkboxes
4. Click "Export Selected"
5. Choose format and customize options
6. Download the combined report

## Report Customization

### PDF Report Options

- Report Title: Custom title for your report
- Include Sections:
  - Executive Summary
  - Detailed Analysis
  - Method Information
  - Recommendations
  - Technical Details
- Branding: Add your institution or organization name

- Date Range: Filter by analysis date

## Data Selection

- Choose Fields: Select which data points to include
- Filter Results: Export only specific types of analyses
- Date Ranges: Limit export to specific time periods
- Content Types: Filter by text input vs. file upload

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# Troubleshooting

## Common Issues and Solutions

### Analysis Problems

Issue: "Text too short" error

- Solution: Ensure text is at least 500 characters
- Tip: Combine multiple short texts for better analysis

Issue: Low confidence scores

- Solution:
- Use longer text samples (500-2000 characters optimal)
- Ensure text is in English
- Avoid heavily technical or specialized content
- Try analyzing different sections separately

Issue: Inconsistent results

- Solution:
- Check text length and quality
- Verify content is appropriate for AI detection
- Consider that borderline content may naturally vary
- Use human judgment for final decisions

## **File Upload Problems**

Issue: File upload fails

- Solutions:
- Check file size (must be under 10MB)
- Verify file format (TXT, DOCX, PDF only)
- Ensure stable internet connection
- Try refreshing the page and uploading again

Issue: Text extraction errors

- Solutions:
- Ensure file isn't corrupted
- Try saving in a different format
- For PDFs: ensure text is selectable (not just images)
- For DOCX: avoid heavily formatted documents

Issue: Processing takes too long

- Solutions:
- Check file size (smaller files process faster)
- Ensure stable internet connection
- Wait for processing to complete (can take up to 60 seconds)
- Refresh page if stuck for more than 2 minutes

## **Account & Authentication Issues**

Issue: Can't sign in

- Solutions:
- Verify email and password are correct
- Try password reset if needed
- Clear browser cache and cookies
- Try different browser or incognito mode
- Check if account is disabled

Issue: Social login not working

- Solutions:
- Ensure you're signed in to Google/GitHub

- Check popup blockers aren't preventing login
- Try different browser
- Clear browser cache
- Contact support if issue persists

## **Performance Issues**

Issue: Slow loading times

- Solutions:
- Check internet connection speed
- Try different browser
- Clear browser cache
- Disable browser extensions temporarily
- Try during off-peak hours

Issue: Browser compatibility

- Supported Browsers: Chrome, Firefox, Safari, Edge (latest versions)
- Solutions:
- Update browser to latest version
- Enable JavaScript
- Disable ad blockers temporarily
- Try incognito/private browsing mode

## **Error Messages**

### **Common Error Messages and Meanings**

"Analysis failed - please try again"

- Meaning: Temporary processing error
- Action: Wait a moment and retry the analysis

"File format not supported"

- Meaning: Uploaded file type is not supported
- Action: Convert to TXT, DOCX, or PDF format

"File too large"



- Meaning: File exceeds 10MB limit
- Action: Compress file or split into smaller sections

"Network error - check connection"

- Meaning: Internet connection issue
- Action: Check connection and retry

"Authentication required"

- Meaning: Feature requires user account
- Action: Sign in or create account

## Getting Help

If you continue experiencing issues:

1. Check System Status: Verify the service is operational
2. Try Different Browser: Test with another browser
3. Clear Cache: Clear browser cache and cookies
4. Contact Support: Use the help page contact form
5. Report Bugs: Include error messages and steps to reproduce

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## Frequently Asked Questions

### General Questions

Q: How accurate is the AI detection? A: The system combines multiple detection methods for high accuracy. Confidence scores indicate reliability - high confidence results (80%+) are very reliable, while low confidence results should be reviewed by humans.

Q: What types of AI-generated content can it detect? A: The system is trained to detect content from major AI writing tools including GPT models, Claude, and other transformer-based language models. It works best with academic and formal writing.

Q: Is my content stored or shared? A: For authenticated users, scan results are stored securely for your analytics dashboard. Content is never shared with third parties. Guest users' content is not

permanently stored.

Q: Can I use this for commercial purposes? A: Please review the Terms of Service for commercial usage guidelines. The system is primarily designed for academic and educational use.

## Technical Questions

Q: Why do I get different results for the same text? A: Small variations can occur due to:

- Different analysis methods being used
- System updates and improvements
- Network conditions affecting processing
- Borderline content that's naturally difficult to classify

Q: What's the difference between confidence and AI probability? A:

- AI Probability: Likelihood the content is AI-generated (0-100%)
- Confidence: How certain the system is about its prediction (0-100%)
- High confidence with low AI probability = very likely human-written
- Low confidence regardless of AI probability = uncertain result

Q: Why does analysis take longer for some files? A: Processing time depends on:

- File size and complexity
- Text extraction requirements
- Current system load
- Network connection speed

Q: Can I analyze content in languages other than English? A: The system is optimized for English text. Other languages may work but with reduced accuracy.

## Account Questions

Q: Do I need an account to use the detector? A: No, guest users can perform basic detection. However, accounts provide:

- Scan history and analytics
- Export capabilities
- Advanced features
- Usage tracking

Q: How do I delete my account and data? A: Go to Profile Settings and use the "Delete Account" option. This permanently removes all your data and cannot be undone.

Q: Can I change my email address? A: Currently, email addresses cannot be changed. You would need to create a new account with the desired email.

## Usage Questions

Q: Is there a limit to how many analyses I can perform? A: There are daily limits to prevent abuse:

- Guest users: Limited analyses per day
- Authenticated users: Higher daily limits
- Contact support for enterprise usage needs

Q: Can I analyze the same content multiple times? A: Yes, you can re-analyze content. This can be useful for:

- Comparing results over time
- Testing different sections
- Verifying borderline results

Q: What should I do with uncertain results? A: For uncertain results (40-60% AI probability):

- Use human judgment
- Analyze different sections separately
- Consider the context and purpose
- Look at confidence scores
- When in doubt, assume human review is needed

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## Privacy & Security

### Data Protection

#### What Data We Collect

- Account Information: Name, email, authentication details
- Usage Data: Scan history, analysis results, timestamps

- Technical Data: IP addresses, browser information, session data
- Content Data: Text submitted for analysis (temporarily processed)

## **How We Protect Your Data**

- Encryption: All data encrypted in transit and at rest
- Access Controls: Strict access controls and authentication
- Regular Audits: Security audits and vulnerability assessments
- Compliance: Adherence to data protection regulations

## **Data Retention**

- Scan Results: Stored for 12 months for authenticated users
- Account Data: Retained until account deletion
- Temporary Data: Guest analyses not permanently stored
- Logs: System logs retained for security and debugging

## **Privacy Controls**

### **Your Rights**

- Access: View all data we have about you
- Export: Download your data in standard formats
- Delete: Remove specific scans or entire account
- Correct: Update incorrect information
- Opt-out: Disable analytics and tracking

### **Content Privacy**

- Processing Only: Content analyzed only for detection purposes
- No Human Review: Content not reviewed by staff unless you request support
- No Sharing: Content never shared with third parties
- Automatic Deletion: Temporary processing data deleted after analysis

## **Security Features**

### **Account Security**

- Strong Authentication: Secure password requirements
- Social Login: OAuth integration with Google and GitHub
- Session Management: Automatic logout and session protection
- Two-Factor Authentication: Available for enhanced security

## **System Security**

- HTTPS: All communications encrypted
- Firewall Protection: Network-level security
- Regular Updates: Security patches and updates
- Monitoring: 24/7 security monitoring

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# **Support & Contact**

## **Getting Help**

### **Self-Service Resources**

1. This User Manual: Comprehensive guide to all features
2. Help Page: Quick answers to common questions
3. Troubleshooting Section: Solutions to common problems
4. FAQ: Frequently asked questions and answers

## **Contact Support**

For Technical Issues:

- Email: [support@aicontentdetector.com](mailto:support@aicontentdetector.com)
- Include: Error messages, browser information, steps to reproduce

For Account Issues:

- Email: [accounts@aicontentdetector.com](mailto:accounts@aicontentdetector.com)
- Include: Account email, description of issue

For General Inquiries:

- Email: [info@aicontentdetector.com](mailto:info@aicontentdetector.com)
- Response time: 24-48 hours

## Reporting Bugs

When reporting bugs, please include:

- Browser and Version: Chrome 91, Firefox 89, etc.
- Operating System: Windows 10, macOS 11, etc.
- Error Messages: Exact text of any error messages
- Steps to Reproduce: What you were doing when the error occurred
- Screenshots: If applicable, include screenshots

## Feature Requests

We welcome suggestions for new features:

- Email: [features@aicontentdetector.com](mailto:features@aicontentdetector.com)
- Include: Detailed description of requested feature
- Use Case: How the feature would help you
- Priority: How important this feature is to you

## System Status

Check system status and maintenance schedules:

- Status Page: [status.aicontentdetector.com](https://status.aicontentdetector.com)
- Maintenance Notices: Posted 24 hours in advance
- Incident Reports: Real-time updates during outages

## Community

Join our community for tips, updates, and discussions:

- User Forum: [forum.aicontentdetector.com](https://forum.aicontentdetector.com)
- Newsletter: Monthly updates and tips
- Social Media: Follow us for announcements

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# Appendix

## Version History

Version 1.0.0 (September 2025)

- Initial release
- Core AI detection functionality
- User authentication system
- File upload support
- Analytics dashboard
- Export capabilities

## Technical Specifications

Supported File Formats: TXT, DOCX, PDF Maximum File Size: 10MB Optimal Text Length: 500-2000 characters Processing Time: 5-60 seconds depending on content Supported Browsers: Chrome, Firefox, Safari, Edge (latest versions)

## Legal Information

Terms of Service: Available at /terms Privacy Policy: Available at /privacy-policy Data Processing Agreement: Available upon request Compliance: GDPR, CCPA compliant

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This manual is updated regularly. For the latest version, please check the application's help section.

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